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ABSTRACT.

This volume is the result of the application of the Health Services Mobility Study (HSMS) curriculum design method in radiologic technology and is presented in conjunction with volume' 1, which reports the task analysis results. Volume 2 contains job-related behavioral curriculum objectives for the aide, technician, and technologist levels in diagnostic radiology, including patient care and quality assurance. It presents guidelines for using the curriculum objectives for educational ladders to parallel the job ladders recommended in volume 1. This volume also presents basic concepts regarding the educational process, describes the HSMS method, presents suggestions for program design and instruction, discusses the use of the curriculum objectives as a source from which the content of proficiency tests can be selected, and presents 351 curriculum objectives. Volume 1 and the task descriptions in the several volumes of Research Report No. 7 (all available separately) are recommended adjuncts to be used with this volume. (Author/BL)

USING TASK DATA IN DIAGNOSTIC RADIOLOGY

Research Report No. 8

Volume 2
CURRICULUM OBJECTIVES FOR RADIOLOGIC TECHNOLOGY

by
Eleanor Gilpatrick and Christina Gullion
Health Services Mobility Study

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ABOUT CURRICULUM OBJECTIVES

INTRODUCTION

This volume represents the first attempt by the Health Services Mobility Study to prepare curriculum objectives from HSMS task data and to design curriculum guidelines. The HSMS method of curriculum design has been applied to the aide, technician, and technologist levels in diagnostic radiology. This volume contains behavioral curriculum objectives for these job levels and presents guidelines for educational ladders to parallel the job ladders recommended in Volume 1 of this report.

Chapters 6 through 9 constitute Volume 2 of this report. Volume 1, its appendixes, and the task descriptions of Research Report No. 7 are necessary adjuncts to this volume.

This chapter is an introduction to the HSMS curriculum design method. It presents the basic concepts and definitions, a brief summary of the method, and describes the curriculum objectives. Chapter 7 is addressed to the educator. It presents and describes the HSMS curriculum guidelines including educational objectives, curriculum outlines, suggestions for instructional planning, and the use of curriculum objectives for curriculum analysis. The chapter is also addressed to the proficiency test developer. One of the sections discusses HSMS curriculum objectives as a source from which the content of proficiency test items can be selected to ensure job relevance and content validity.

Gilpatrick, Eleanor, Task Descriptions in Diagnostic Radiology (four volumes), Research Report No..7, New York: Health Services Mobility Study, 1976. (Volumes 2 and 3 cover the tasks represented in the curriculum objectives presented in Chapter 9 of Research Report No. 8.)

Chapter 8 presents the curriculum outlines for the educational ladders. It suggests an ordering of the curriculum objectives to parallel the job ladder sequences recommended in Volume 1. Table 3 in Chapter 8 serves as an overall index of the curriculum objectives. Chapter 9 presents the 351 curriculum objectives in order by number.

CONCERTS AND DEFINITIONS

In 1973, Christina Gullion and Eleanor Gilpatrick developed the HSMS curriculum design method. Working Paper No. 11 reported the basic theory and the method as it was first developed, along with a review of the literature on the field. A summary of the method appears in Technical Report No. 13. This section reviews the basic concepts and definitions that underlie the HSMS curriculum design method.

Educational Ladders

An educational ladder is a related, sequential set of educational courses or programs that provides for continuous educational movement to parallel the movement along a job ladder from its entry-level job. to its highest-level job. An educational ladder provides exit credentials for each intermediary job that is reached at the end of each program in the sequence. Such sequences do not require repetition of course work when an individual reenters the educational process to continue up the ladder

Gullion, Christina, and Gilpatrick, Eleanor, The Design of Curriculum Guidelines for Educational Ladders Using Task Data, Working Paper No. 11, New York: Health Services Mobility Study, July, 1973.

Gilpatrick, Eleanor, An Introduction to the Work of the Health Services

Mobility Study as of April, 1975, Technical Report No. 13, New York:

Health Services Mobility Study, 1975.

(aside from the necessary reinforcement or refresher work needed to bring the student up to date in competence).

For such upward mobility to be possible, the student must be able to build on his or her knowledge and skills in cumulative steps. The HSMS task analysis and curriculum design methods assume that a deep, broad understanding of a given knowledge area can be reached in successive, incremental steps, beginning with a shallow understanding and limited amounts of detailed information. The methods further assume that skills are learned through practice, and can also be learned in incremental steps. The concept that skills and knowledges are teachable and additive is embodied in the HSMS skill and knowledge scales and makes it possible to design job ladders and educational ladders.

Education versus Training

The words "training" and "education" are usually used interchangeably in everyday speech, but important distinctions exist which
differentiate an educational ladder approach to curricula from a discrete
training approach to curricula.

Purely technical "training" is provided for most entry-level jobs, and is the form in which preparation for many emerging specialties first appears. The training teaches students what to do in the immediate context and under the specific conditions of the given institution or the given equipment. It is generally designed to provide rapid results for immediate needs; as a result, the performer is able to carry out routine procedures by rote.

We do not mean to equate the experience of clinical practice with technical "training." Clinical practice can be consciously designed to promote educational objectives.

Such preparation is related to work performance, but it is not adequate for use in connection with job ladders; it cannot be the basis for educational ladders. Training for the rote performance of narrowly conceived task precedures (which is offered by many who design curricula for paraprofessionals), does not properly prepare the student for higher level work or learning.

- 1. "Training" does not prepare the student to deal with contingencies such as emergencies that may arise, since the student does not learn why he or she is doing a given act or what principles are involved.
- 2. "Training" does not prepare the student to apply the activity in a different work situation where, if the principles were understood, the same learning would apply, or to a different set of materials or equipment where, if the process or reasons were understood, the same procedures would apply. Thus, the student's learning is not transferable laterally.
- 3. "Training" does not prepare the student with the conceptual groundwork upon which later learning for higher level tasks must be based. Rote learning is not additive and is not transferable vertically.

Degree granting programs usually stress the disciplines upon which technical work is founded and appear to provide implicitly for transferability of learning. However, academic programs often contain course requirements that are irrelevant, obsolete, or taught in a manner so removed from the contexts in which they are to be applied that they are not useful preparation for work. Such programs require the vitality of relevant content and proper clinical experiences.

The HSMS approach is that cupational preparation must be job relevant, must emphasize transferability of learning, and must be presented in additive units. This approach is reflected in our task data

and is an underlying tenet of our curriculum design methodology. We assume that:

- 1. Education and training should permit transferability of knowledge across specific work contexts or as technology changes; the student must be prepared to deal with contingencies or emergencies. This requires that knowledges needed in work performance be comprehended in the context of the larger disciplines in which they are found. The HSMS Knowledge Classification System makes this possible.
- -2. Education and training should present academic disciplines and general skills in contexts which will be relevant to the jobs for which they are preparation by referring to the work behaviors in which they are to be applied, including clinical training consciously utilized to this end. The HSMS task descriptions make this possible.
 - 3. Educational and training programs should present the skills and knowledges in a manner that is, and in units that are, additive, so that each level provides the groundwork that will be needed for later learning. The HSMS scales make this possible.

Curriculum versus Instruction

The words "curriculum" and "instruction" are also often used interchangeably. The reader who does not make a distinction might expect this volume to offer lesson plans for a program in radiologic technology. It does not. We offer curriculum objectives for radiologic technology arranged in sequences. We subscribe to the distinction between curriculum and instruction as stated by Dr. Mauritz Johnson, Jr.:

curriculum is a structured series of intended learning outcomes. Curriculum prescribes (of at least anticipates) the results of instruction. It does not prescribe the means, i.e., the activities, materials, or even the instructional content, to be used in achieving the results....5

Johnson, Jr., Mauritz M., "Definitions and Models in Curriculum Theory," in <u>Educational Theory</u>, Vol. 17 (April, 1967), p. 130.

that students learn, not what it is intended that students learn, not what it is intended that they do [in the classroom].6

According to Dr. Johnson, curriculum development is a systematic process which results in an end product, the curriculum. It is a process which includes two chief activities: the first is the selection of curriculum items from the available sources; the second is the structuring of the selected content. Thus, there is a relationship between curriculum and instruction. Curriculum guides instruction. By implication, instruction deals with the student's experience in the classroom. It covers what is taught and presents what is to be learned.

Curriculum Objectives and Goidelines

Johnson's structured series of intended learning outcomes expressed as startements. The HSMS statements are written as behavioral objectives. Our earlier literature review indicated the attractiveness of behavioral objectives as applied to instructional preparation. We concluded that the same characteristics could be used in the preparation of HSMS curriculum objectives. The HSMS curriculum objectives describe the behavior that is to be manifested, the situations in which the behavior is to be manifested, and the content which must be mastered for the behavior to be manifested.

Each HSMS curriculum objective is stated as an intended learning outcome in the language of the tasks to be performed; there are three types of objectives: skill, knowledge, and procedural.

bid.

Op. cit., p. 131

The skill and knowledge objectives state in detail the content which must be learned in order to perform the tasks. These objectives specify the type of skill or the area of knowledge to be learned, the level of competence, and the task activities in which the content must be demonstrated or applied. By presenting the work behavior in combination with the skill or knowledge discipline in the curriculum objectives, we assure both job relevance and an academ att, and we focus on the desired end product. The procedural objectives cover the sequences in which the tasks must be performed; they are referenced to the tasks; thus the task descriptions become useful as instructional materials.

Using the HSMS task data and analytic techniques, we are able to specify a set of educational objectives (desiderata), offer a structured set of intended learning outcomes (curriculum objectives), and arrange these to provide an educational ladder. We are able to offer suggestions for instruction and a set of instructional materials, namely, the task descriptions. We refer to this total educational contribution to an occupational area as curriculum guidelines.

THE HSMS CURRICULUM DESIGN METHOD

The method used to develop and write, curriculum objectives and arrange them into educational ladder sequences has been implified since it was first presented in Working Paper No. 11 and Technical Report No. 13. Most of the preparatory work is now done at the time that the tasks are scaled for their skill and knowledge requirements. At that stage the HSMS job analysts scale each task for the highest scale value of each skill or knowledge category needed to perform each task. The

analysts are then required to mark or indicate the part or parts of each task description in which each skill or knowledge is applied or manifested at the scale value selected.

If, for certain skills such as Decision Making on Quality, a comment must be written to explain how the skill is manifested, since it implicit rather than explicit in the language of the task, the comment is written on the task description sheet at the time the scaling is done.

In the case of knowledge categories, a task's scale value for the category depends on the amount or breadth of detailed knowledge needed as well as the depth of understanding required. Therefore, we have the dnalysts mark all the parts of the task that require any knowledge in the given category.

We use two sets of task descriptions. One is annotated for skill scale values and the other for knowledge category values. These two sets of annotated task descriptions are the basic inputs to the process of writing curriculum objectives.

Curriculum Objective Coverage

Once the task analysis is completed and the tasks have been assigned to factors and job levels, we are able to determine how many curriculum objectives will be required. Each job level within a task factor is considered to be a discrete occupational and educational unit, and we treat each unit separately; we also treat each factor separately. This provides program designers with the option of combining or separating the curriculum objectives for given skills and knowledges as appro-

priate to the structure of their programs. For example, the six units covered by curriculum objectives in this report relate to four factors and three job levels. A traditional program for the radiologic technologist may combine them all, even though we recommend a sequence of programs. Our intent is that the curriculum objectives be usable for a single job level as well as for an educational ladder, and for multi-factor occupations as well as for single factor jobs.

We write a curriculum objective for every skill and every knowledge category at each scale value required for any of the tasks covered by an occupational-educational unit. We are able to determine how many curriculum objectives will be required by referring to the MATRIX array for each occupational unit.

It contains nine tasks in a single factor, arranged into three job levels.

The figure serves to illustrate certain points about the construction of curriculum objectives. Figure 14 has three occupational units. At level
1, Skill 1 is required by three tasks. It is required at scale value 1.0 for two tasks, and at 2.0 for one task. This results in two curriculum

The six occupational-educational units covered by curriculum objectives are as follows:

Factor IV, patient care, level 1 (aide)

Factor IV, patient care, level 2 (technician)

Factor VI, quality assurance, level 1 (aide)

Factor VI, quality assurance, level 2 (technician)

Factor III, radiologic technology, level 3 (technologist) Non-factor A, administration, level 3 (technologist).

The MATRIX program and array is described in Chapter 5 of Volume $\hat{1}$ of this report.

This is the same as Figure 9 in Chapter 5 of Volume 1.

Figure 14. MODEL OF "MATRIX" ARRAY OF SKILLS
AND KNOWLEDGES BY TASK AND JOB LEVEL

			<u> </u>	•		_			
Skills	FACTOR I LADDER								
and	Level 1			Level 2			Level 3		
Knowledge	Task	Task	Task*	Task	Task	Task	Task	Task	Task
Categories	.1 '	2	3	4	5, *-	-6	7	, 8	9 `
		, ,					•		
'Skill 1	1.0,	1.0	2.0	2.0	2.0.	4.0	4.0	9.0	9.0
		,			•				
* Skill, 2	1.0	2.0	2.0	2.0	2.0	2.0	4.0	7.0	9.0
4 ,				₩.	•		_	, ,	
Skill 3	• '	2.0	2.0	4.5		4.5	2.0	7.0	7.0
·		• ,							
* Knowledge 1	, -		` `	1.5	1.5	1.5	7.0	1.5	7.0
		1	а		٠.	•	•		•
Knowledge 2		•		3.5	3.5	2.5	5.5	2.5	9.0
		1.	•			,		, F.	
Skill 4		,	-	5.0	5.0	5.0	5.0		5.0
1	•	٠	a,				į.	1	1
Knowledge 3	•						5.0	6.0	
1				1 : , ,	٠, ـ		`	Ĭ	
* Knowledge 4						, ,	3.5	9.0	9.0.
		1							
. Knowledge 5		} `			· <u></u>	/	8.5	8.5	8.5
,						•			
Knowledge 6		l		44			3.5	75	7.5
1				•		•	:		-1
Knowledge 7				,	1		7.0	7.0	9.0/
, ,						,			
Knowledge 8			1				7.0	,	8. 5 、

- * Asterisk denotes variables that determined the factor.
 - 1. Tasks are listed from left to right in ascending
 - order of loading on "task factor."

 2. Skills and knowledge categories are listed from top to bottom in order of appearance in the task array.
 - 3. Tasks are assigned to levels based on increasing, numbers of skills and knowledges required and their scale values.
 - 4. Not every skill or knowledge appears in all subsequent, higher-level tasks.✓
 - 5. Scale values do not necessarily rise from level to level.
 - 6. Scale values may vary within a level.

6-1

objectives. Skill 2 would have two curriculum objectives at level 1. Skill 3 would have one curriculum objective at level 1. No matter how many tasks require a given skill or knowledge category at a given scale value, if they are all in the same job level and factor, one curriculum objective is written. By the same token, even if only one task requires a given knowledge category at a certain scale value, a separate curriculum objective is written.

Separate curriculum objectives are written for each occupational unit. In Figure 14, Skill 1 is needed at scale value 2.0 in level 1 and also in level 2. Two curriculum objectives would be written. For Figure 14, there would be a total of 37 curriculum objectives. Level 1, would have 5; level 2 would have 8; and level 3 would have 24. If there were a second factor, there would be separate curriculum objectives for each occupational level in the factor.

Curriculum Objective Formats

Figure 15 is a blank curriculum objective sheet. A similar, briefer form is used for additional pages when curriculum objectives need more than one page. (Chapter 9 presents the actual curriculum objectives; these can also be eferred to in order to follow this description.) The basic identification information is filled out at the top of each curriculum objective sheet as follows:

- Type of Objective: Whether skill, knowledge, or procedural.
- Factor: The number of the task factor (III, IV, VI or A for this report).

Figure 15. BLANK CURRICULUM OBJECTIVE SHEET

CURRICULUM OBJECTIVE SHEET		Page 1 of_
Type of Objective	Factor .	No.
Skill or Knowledge Category		Scale Value
Occupation	<u> </u>	Level
Refers to Task Code No(s).:		
· · · · · · · · · · · · · · · · · · ·		·
Is there Cross Reference?Yes()	No. () TE	
is there cross Reference:les()	No(.) If yes, see root	note(s).
Content: A'graduate of the program at	this educational level:	must be able to
	ento educacional level	mast be apie to
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- 3. No.: The curriculum objective number. As in the case of tasks, the curriculum objectives are numbered for identification purposes, but the number carries no other special significance.
- 4. Skill or Knowledge Category: The name of the skill or the code number of the knowledge category.
- 5. Scale value: The scale value at which all the content of the curriculum objective is to be rated.
- 6. Occupation: The name of the job; in this case names such as patient care aide, quality assurance technician, radiologic technologist, etc.
- 7. Level: The HSMS job level of the occupation and the tasks obvered.
- 8. Refers to Task Code No(s): The task code numbers of all the tasks that have been scaled at this scale value for this skill or knowledge category and whose language is reflected in the curriculum objective.
- 9. Is there Cross Reference?: Yes, if the same skill or knowledge category appears in any other curriculum objective at a lower scale value, at the same scale value, at a higher scale value, or if the skill or knowledge category appears in tasks higher on the job ladder than is represented in the curriculum objectives (such as levels 4 and 5). The footnotes tell the user the numbers of the objectives that are at lower, the same, or higher scale values, or state the higher dob level.

Curriculum Objective Content

All the curriculum objectives start out with a classic opening for a behavioral objective: 'A graduate of the program at this educational level must be able to...". They then continue with the content of the curriculum objective. A prototype for each type of curriculum objective has been developed. Each utilizes the HSMS skills or Knowledge Classification System, the scales, and the task descriptions. The curriculum objectives for skills and knowledge categories are written so that the reader is not required to know the HSMS method in order to understand

what is being referred to by the skill or knowledge category names or the scale values involved.

Each HSMS skill objective has a prototype introductory paragraph that summarizes the kind of behavior that characterizes the skill, regardless of level. Most skill objectives end with a prototype paragraph that begins, "To accomplish this, the student must be able to ...".

These indicate a context for demonstration of mastery. Between the opening and closing paragraphs in any given skill objective, we present the language of all the task descriptions within the occupational-educational unit that demonstrate the given scale value for the skill.

The prototypes for the skill objectives are witten so that the user can understand from the language what aspects of each skill must be consciously taught and consciously learned. It is not necessary to learn to use the HSMS skill scales to deal with the various scale values. Since the task language has already been the basis for the task's rating at the given scale value, the task language presented in the objective demonstrates the scale value. (Appendix C of Volume 1 presents the scales for the interested reader.)

We present only one skill objective for a given skill scale value within any given occupational unit regardless of the variety of task contexts in which it is needed. On the other hand, if the same kind of activity appears in more than one task, a single content statement is given. This makes it possible to consolidate a good deal of task material when many tasks all call for a skill to be manifested in the same way. We list the appropriate Task Code Numbers after each content statement.

There is one prototype for all the knowledge objectives. The prototype first names the knowledge category and any relevant explanations of what is covered by the category. This is followed by the task language which indicates how the knowledge is applied. There is a closing paragraph which indicates the context for demonstrating mastery. The knowledge objective prototype has been designed so that the user need not refer to the Knowledge Classification System or know how to use the knowledge scale. The scale value has already been determined by the depth of understanding and the breadth of detailed information needed in the discipline named in order to accomplish the task activities listed. Thus, the task activities themselves embody the scale value.

As in the case of the skill objectives, an objective for a knowledge category at a given scale value covers all the task activities that require the category at that value regardless of how different the activities are, or how different the particular components of the subject area are. We consolidate language that is similar across tasks listed for the given knowledge objective. There are as many statements on a given knowledge objective as there are different descriptions of activities that require the knowledge of the given category at the scale value involved.

There is one procedural objective for each occupational—educational unit. It lists all the tasks of the unit and describes the intended learning outcomes with respect to the tasks as a whole. The prototype calls for the student to demonstrate knowledge of the proper sequence of events and contingencies associated with each task, proper



use of all equipment not already covered by skill or knowledge objectives, and application of non-scalable knowledge such as arithmetic when it is called for in conjunction with mathematical knowledge or symbolic skills. The task descriptions of Research Report No. 7 are the references for these objectives; this transforms the task descriptions into instructional materials, and places the evaluation of the student's mastery in a clinical setting or a clinical simulation.

Writing Curriculum Objectives

When we write the curriculum objectives we work with one skill or knowledge category at a time. We start with the curriculum objectives for the lowest scale value of a skill or knowledge and write all the objectives for that value, one for each occupational unit that requires it. For example, in Figure 14, we would write one curriculum objective for Skill 1 at 1.0, then two curriculum objectives for Skill 1 at 2.0, then two for Skill 1 at 4.0, and then one for Skill 1 at 9.0. By proceeding in this way we are able to pay attention to the additive nature of the curriculum objectives; we are able to use similar language for similar activities; and we are able to check any remaining computer etrors or discrepancies in the skill and knowledge scale data. We work first with the skills, then the knowledge categories, and finally with the procedural objectives.

The HSMS curriculum analysts work with the annotated task descriptions. This stage of the work requires the analysts to identify all the annotated task language for a given skill or knowledge category at a given scale value for all the tasks listed for a given curriculum

objective. If more than one section of a task is annotated, all are considered and represented. For a given curriculum objective all task activities that use or are described in the same language are grouped, and one statement is written. This is followed by the tasks code numbers. Additional statements are written until all the tasks listed for the objective are represented in the content section of the objective. We attempt to stay as much as possible with the language used in the task descriptions. We also attempt to present the content statement in such a way that the relevant context for the activity is apparent. These statements mention the behavior required, sometimes mention the standards, but rarely indicate the substantive material that must be learned by the student in order to master the behavior. That is left to instructional planning.

The curriculum objectives are presented in Chapter 9 with the skill objectives first, the knowledge objectives next, and, finally, the procedural objectives. The skill objectives are presented in the order of their HSMS scale numbers (as in Appendix A of Volume 1). The knowledge objectives are presented by knowledge category in the order of their Knowledge Classification System code numbers. This retains the structural relationship among categories; the categories subsumed under broad disciplines appear after their parent disciplines.

Within each skill or knowledge category: the objectives are presented in rising order by scale value. For example, all the objectives for Skill 1 at 1.0 are presented before any at 2.0 or those for any other skill. Within a scale value, the objectives in Chapter 9 are presented

first for Factor IV, then Factor VI, then Factor III, and, finally, Non-

Presenting the objectives in order by scale value makes it easy for the program designer or the instructor to compare and/or combine the content of curriculum objectives at the same or different levels, or to anticipate the content at higher levels. Since tasks are scaled for their highest required scale values, lower level behavior required for a given task can be identified by examination of curriculum objectives for lower scale values of the given skill or knowledge category.

Table 3 of Chapter 8 is an index of the curriculum objectives. It lists each skill and knowledge category in order by scale value. Next to each, one can determine the task factor and job level that requires the skill or knowledge category at the given scale value. Then the number of the curriculum objective which applies is given. From this listing the user can determine which curriculum objectives are of interest.

CHAPTER 7

CURRICULUM GUIDELINES FOR RADIOLOGIC TECHNOLOGY

The HSMS curriculum guidelines for radiologic technology are a series of inputs to the various stages of the educational process. This chapter presents the guidelines after a brief discussion about the authors view of the stages of the educational process.

In Working Paper No. 11, Gullion and Gilpatrick presented a model that elaborates five stages of the developmental process in education. The first stage is selection of educational objectives. This is when the educational institution decides what it will teach and what goals and values it will try to achieve. The second stage is curriculum development, in which curriculum content is selected and structured. The educational objectives are inputs to this process. The third stage is program design, in which the curriculum is arranged into sequences and courses to fit the needs, of the institution's program and time requirements, and when credit units are assigned. Curriculum is the major input to program design, but the institutional framework is also an important input.

The fourth stage is <u>instructional planning</u>. This is when the teacher takes the "intended learning outcomes" of the curriculum arranged into programs and courses and devises sequences of instruction. The instructor adds additional content to facilitate learning, selects instructional units and materials, and plans presentations. The fifth stage is <u>instruction</u>. This is when the students and teacher interact within the teaching environment, and where learning outcomes are achieved to one de-



Op. cit., Chapter 2.

may or may not correspond to educational, curriculum, or instructional objectives. The evaluation of each stage in terms of the prior stage and the resulting feedbacks turn the model into an educational system.

The HSMS method of task analysis and curriculum design results in materials for most of the stages of the educational process. We demonstrate this in diagnostic radiology, covering jobs from the entry level to the technologist level. The entire package is the HSMS curriculum guidelines for adiologic technology. The HSMS curriculum guidelines include the specification of educational objectives, behaviorally stated curriculum objectives, and curriculum outlines which sequence the curriculum objectives for educational ladder programs. The guidelines also include suggestions for instruction; the HSMS task descriptions are available as instructional materials. Finally, we provide suggestions for the use of curriculum objectives for evaluation, for the construction of proficiency tests, and for curriculum analysis.

EDUCATIONAL OBJECTIVES

Selection of educational objectives is the first stage in the process of education and helps determine curriculum development. The objectives determine whether the institution will train students for an occupation, will emphasize social values of one sort or another, will meet external requirements for licensure or accreditation, and will turn out students who are oriented to social needs and/or personal gain. The decision to have educational ladders is also the selection of an educational objective.



HSMS opted by its very existence to become associated with a specific set of educational objectives. These included a commitment to occupational preparation, particularly for health occupations. We chose to prepare curvicula in the form of educational ladders which, in turn, means opting for curricula which combine both training and education. We undertook the writing of normative task descriptions in order to fulfill the objectives of having curricula emphasize high quality performance and patient safety. Below are the six educational objectives we adopted as part of our curriculum outlines for radiologic technology:

- Performers of tasks involving ionizing radiation should be trained to provide maximum safety to themselves, their co-workers, and their patients by the use of adequate, appropriate shielding for all procedures.
- 2. Performers of tasks involving ionizing radiation should be trained to minimize the exposure to radiation of the general population by always considering how to minimize the exposure required while still obtaining all the diagnostic information needed, and by minimizing the need to repeat exposures due to inadequate performance of the stasks.
- 3. Performers of tasks involving patients in the diagnostic use of ionizing radiation should be trained to give sensitive, sympathetic attention to the patient, to understand the fears, anxieties, and pain experienced by the patient, and should be trained to recognize the needs of patients for reassurance, information, and dignity.
- 4. Performers of tasks involving patients in the diagnostic use of ionizing radiation should be trained to carry out their tasks so as to minimize the possibility of transmitting infection or communicable diseases by practicing appropriate sterile, antiseptic, and/or decontamination procedures before, during, and after examinations.
- 5. The curriculum objectives for radiologic technology should present curriculum content in the context of formal disciplines to connect task content with underlying principles and concepts, so that the parning is transferable, both laterally to new work situations and vertically to the next educational level. The curriculum objectives should

also present the job relevance of the academic subject matter by showing how the skills and knowledge disciplines are applied in task activities.

6. The curriculum for radiologic technology should be divisible into programs that provide for upward mobility through educational ladders; these should eliminate redundancy and should offer transferable educational credits.

CURRICULUM DEVELOPMENT

Once the educational objectives are selected, curriculum development is the next stage in the educational process. Curriculum development involves the selection of curriculum content and the structuring of the content into an organized set of intended learning outcomes. The educational objectives are inputs to curriculum development and determine the criteria for the selection of content.

The content we select is the behavior represented in the task descriptions, the disciplines of the Knowledge Classification System, and the skills. Our first four educational objectives can be met through the content of the task descriptions if the descriptions are used as instructional materials. These descriptions determine the skill and knowledge scale values for the tasks and are then carried into the curriculum objectives. When the task content is combined with the HSMS skills and knowledge categories in the curriculum objectives, transferable and job relevant curricula (the fifth objective) is achieved.

The inherent relationship among disciplines is manifested in the HSMS Knowledge Classification System; the additive nature of the skill and knowledge content is reflected in the HSMS scales; the association of disciplines in a given occupation determines the HSMS factor results.. The

factors, in turn, are translated into job ladders; the ladders result in the occupational-educational reference units for the curriculum objectives. Thus, the HSMS curriculum objectives are a structured series of intended learning outcomes. When these are arranged in the form of educational ladders, the sixth educational objective is made possible. The curriculum outlines presented in Chapter 8 are recommendations for educational ladder sequences and are inputs to the next stage of the educational process, program design.

PROGRAM DESIGN

Program design is the division and arrangement of a curriculum into sequences and/or units appropriate to the content, time requirements, and structure of the educational institution. Program design is done within a specific institutional setting, sometimes by an administrative office, sometimes by a committee of the faculty, and rarely by the individual teacher, who is usually concerned with instructional planning for a given course.

The program designer must take into consideration the facilities and faculty available to carry out a program and the accreditation requirements which may govern credit hour distributions for various content areas. He or she may combine or separate areas of content into courses or sequences. The program designer takes admission requirements into account, and may plan introductory, remedial, or "enabling" courses which prepare students to deal with the material specified in the curriculum.

The program designer must also take account of the way in which the institution organizes or plans to organize learning experiences. One institution may create a modularized curriculum in which content is organized

and taught in short sections, using pre- and post-tests of competencies to determine individual student progress. Another may stress a traditional credit-hour semester; still another may provide bilingual education for an ethnically mixed student body. A given program may or may not be divided into courses; an educational ladder may be made up of a sequence of programs. Institutionally determined conditions such as academic credits, degrees, certification, or other "milestone" divisions of content set the framework within which programs are designed. These institutional arrangements have plications for the way in which curriculum content is organized.

The HSMS proposals for structuring of curriculum objectives into educational ladders can have an impact on the sequential arrangement of courses or the assignment of curriculum units to programs. The HSMS suggestions for radiologic technology make it possible to arrange curricula into one or more educational ladders. One ladder begins in patient care, and another in quality assurance. Each ladder would begin at the entry (aide) level, rise to the technocian level, go on to radiologic technology at the technologist level, and then each could proceed to the supervisor-educator, level and/or to the curriculum for radiation physicist.

Figure 16, below, presents the job of radiologic technologist in its job ladder framework and in relation to higher- and lower-level jobs. We have written curriculum objectives with this structure in mind. The six units in Figure 16 at levels 1, 2 and 3 are the occupational-educational reference units for the curriculum objectives. However, the curriculum objectives can be combined in any other way to suit the educational objectives of any given educational institution. This includes the traditional view that the radiologic technologist is a single occupation incorporating all

the tasks in the patient care, quality assurance, radiologic technology, and administrative factors at levels 1, 2 and 3.

Figure 16.	JOBS	COVERED	BY	HSMS	CURRICULUM	OBJECTIVES

Figure	16. JOBS CO	VERED BY HSMS CURE	CICOLOM OBJECTIVES	<u> </u>				
	Factors							
~	IV: Patient	III: Radiologic		A; Adminis-				
Job	° Care `	Technology	Assurance	t ≆ati on '				
Levels								
5	in- Marine		Radiation Physicist*					
,4	Chief Patient Care Tech- nologist*	Chief Radio- logic Tech- nologist*	•	`Supervisor*,				
3 -		Radiologic .Technologist		Administrative Technologist				
2	Patient Care Technician		Quality Assur- ance, Technician					
1	Patient Care . Aide		Quality Assur- ance Aide					
1 '	•	ì	<u> </u>	<u> </u>				

^{*} Jobs at levels 4 and 5 are referred to in the cross-reference footnotes in the curriculum objectives, but curriculum objectives have not been written for these levels.

We suggest that the curriculum for radiologic technology should be arranged to parallel one or more job ladders, and that the first one or two steps should require no more than the equivalent of half the preparation now required for the licensure or certification of radiologic technologists. Students should be able to proceed beyond the technologist level to levels 4 and/or 5 as in Figure 16. The program should prepare indiviationals in a sequence which qualifies them to exit after completion of early course work to take aide and/or technician jobs in patient care or quality



assurance, or to continue to the technologist level. Students should be allowed to enter or reenter the program upon successful demonstration of mastery of the objectives at the earlier levels.

Curriculum Outlines

To assist the program designer to achieve the sequencing we suggest, we present the curriculum outline tables in Chapter 8. They offer several alternative approaches to program design in radiologic technology. This section tells the reader how to use the tables. It can be omitted until the reader has reason to work with the outlines.

Table 3 in Chapter 8 is an index of the 351 curriculum objectives for the six occupational-educational units of radiologic technology. The table shows the number of the curriculum objective for a given factor and job level for each skill or knowledge category at each scale value.

Tables 4 and 5 in Chapter 8 are curriculum obtlines for two educational ladders. Table 4 assumes that the radiologic technologist job is reached in three stages: from aide to technician in quality assurance, to technologist in radiologic technology. Table 5 also assumes that the radiologic technologist job is reached in three stages: 'from aide to technologic in patient care, to technologist in radiologic technology.

Each outline thows the Curriculum Objective Number associated with each skill and knowledge category by scale value. The information is arranged in three major columns: one for the aide, one for the technician, and one for the technologist. Within each of the three major columns one finds the Task Code Numbers associated with a given curriculum objective,

The column for the aide level ends when all the skill and knowledge objectives required for level 1 are presented. The table continues with a list of curriculum objectives for skills and knowledge required at level 2, but not at level 1, and then presents those required only at level 3. Each column ends with the number of a procedural objective and shows all the Task Code Numbers associated with the given occupational-educational unit.

The program designer can use each column separately to design three separate programs. Reading down the column for level 1 provides the numbers for all the curriculum objectives for the aide. Reading down the column for level 2 provides the numbers for all the curriculum objectives for the technician. Reading down the column for level 3 provides the numbers of all the curriculum objectives for the radiologic technologist. Since these columns also provide the task numbers associated with each curriculum objective, the tables are indexes of the task descriptions that can be used as instructional materials.

By reading across the rows, the program designer can determine whether a given skill or knowledge objective has been preceded by or will be followed by curriculum objectives for the given skill or knowledge at the same, higher, or lower scale values in either of the other two job levels. He or she can decide to use or refer to the other curriculum objectives in instructional planning or to combine them. If levels 1, 2 or 3 are combined in a given program, the table makes it easy to combine or sequence curriculum objectives by order of scale value.

Level 3 refers to the radiologic technologist in both Tables 4 and 5. Since the prior skill and knowledge content of patient care and quality assurance at levels 1 and 2 are different, the sequences in which the skill and knowledge objectives for level 3 appear are different in the two tables; hey reflect the prior sequencing at levels 1 and 2 for each of the two factors respectively.

Table 6 in Chapter 8 presents the curriculum outline for administrative tasks at level 3. The information on the skills, knowledge categories, scale values, Task Codes, and Curriculum Objective Numbers are presented separately so that the program designer can incorporate them to suit the needs of the program, such as in a separate educational ladder, within core curricula, or combined with the material in Tables 4 and/or 5.

If the educational institution does not subscribe to the educational ladder approach, the appropriate table to use for program design is Table 3, which makes it possible to treat each of the skills and knowledges at each scale value as a unit by combining the objectives across occupational units; it is then possible to order the curriculum so that activities at lower scale values of the skills and knowledges are taught before higher ones are taught. It is also possible to examine all the skills and knowledges and decide on the best order of presentation from the point of view of logic or the nature of the disciplines.

Radiation Physicist Curriculum

Table 7 in Chapter 8 deals with the radiation physicist. It presents the skill and knowledge requirements for the job; at this time curriculum objectives have not been written for level 5. However, this





can be done by the program designer without a great deal of effort. Each skill and knowledge category is presented, along with the scale value and the Task Code Numbers associated with each scale value. The program designer could work with these data and Volume 3 of Research Report No. .7, which contains the task descriptions for the physicist. Following the description of the HSMS curriculum design method in Chapter 6 of this report, the user could annotate the task descriptions using the skill scales of Appendix C and the knowledge category names of Appendix B of Volume 1 of this report. The curriculum objectives could then be written, using those of Chapter 9 as models.

Sequencing Curriculum Objectives Within Programs

The curriculum outlines of Chapter 8 offer suggestions on overall sequences that are related to job content. The order in which the objectives are presented within each educational unit is skills first, followed by knowledge categories in the code number order of the Knowledge Classification System. Within each category the objectives start with the lowest scale value and proceed upwards. For any given program, sequencing by scale value is the most logical way to present any given skill or knowledge category. It is also appropriate to present a broad subject category before its component subdivisions. Tables 3 through 7 all take this into account.

However, it is certainly not appropriate to teach skills first and knowledge categories second. (See the section on skills under Instructional Planning, below.) In fact, it is best to teach skills with the knowledge content to which they are applied. In addition, the order in which knowledge categories appear within the HSMS Knowledge Classification



System may not be the most appropriate order for a given occupational program. The sub-categories within broad disciplines have a clear interrelationship reflecting the structure of the disciplines; however, it is an arbitrary function of the coding system that the biological sciences come before physics or mathematics, that "normal structure and function" and "pathology" come before "pharmacology," or that these precede "diagnotic radiology" or "interaction with radiation." It was an arbitrary decision that placed the "musculoskeletal system" after several other systems of the body under/"normal structure and function."

Part of the responsibility of the program designer and/or instructional planner is to decide on the best ordering of the curriculum objectives. One insight that we offer is that the skills and knowledges that "determine" a given factor are interrelated, and generally rise and fall together. Thus, Table D.1 in Appendix D of Volume 1 of this report offers some useful information. The table presents the skills and knowledge categories that "determine" the various factors. Those determining Factors III, IV, and VI (in the six factor solution) should be considered for joint presentation. There is a possibility that, since they are interrelated, presenting the material together may enhance the effectiveness of instruction. This is, obvious for subjects such as "radiobiology" and "interaction with radiation."

It is apparent to us, for example, that it is a waste to teach "topographic anatomy," "regional anatomy," or the anatomy and physiology of various systems of the body separately from "positioning" in the program for the radiologic technologist. This wasteful separation in some

program outlines eaunot be undone at the level of instructional planning.

The decision must be made at the level of program design.

We suggest that, as a general rule, the skill and knowledge objectives that relate to the same task activities be grouped together and taught as a unit. The introduction to the disciplines and skills would come first, followed by the specific content of the disciplines as required in the task situations for the group of curriculum objectives.

Laboratory simulation would follow, and then, eventually, clinical practice. Sets of HSMS curriculum objectives could be organized into a sequence of three or four modules which would cover, in sequential fashion, the general academic, laboratory, and clinical content needed to master a particular group of task activities. This approach is valuable for program designers who are preparing modular program structures.

The benefit of this type of task-centered program design is that it is possible to provide the student with an early awareness of how the various disicplines are combined in the clinical situation.

A module for a related set of tasks may be difficult to translate into academic credits comparable to those assigned to traditionally designed courses listed by discipline. However, we suggest that the educational benefits to be derived from such a modular approach may be well

Modular course structure is often linked with what has come to be known as "competency-based" education. The basic premise is that students should be allowed to learn at their own pace, should be required to study only the content they have not already mastered in previous educational or work experiences, and should be granted a degree or certificate on the basis of demonstrated mastery of the subject matter covered by the program, rather than on the basis of a prescribed minimum number of credits acquired during a prescribed period of time.



worth the effort needed to add up the fragmented areas of a discipline divided among task-oriented modules in order to grant those coveted credits for course work in the disciplines.

Other Educational Sequences

The HSMS method produces designs for the structuring of tasks into logical job ladders and into educational ladders to parallel them; the method produces data that can be arranged to design educational ladders for any desired structuring of tasks into job sequences.

The HSMS curriculum objectives can be arranged into educational ladders by virtue of the additive nature of the skill and knowledge scales and the factor analysis with which we group the tasks into interrelated fac-Because of the additive nature of the scaled skill and knowledge cate gories, one need only investigate the difference between the highest scale values required for any two occupational units to discern the educational gap between them. This means that one can determine the extent to which additional preparation is needed to move laterally and/or vertically across job structures. Table 2 provides an example of this type of information.

Table 2, presented at the end of this chapter, shows the highest scale values required in the 15 skills and 88 knowledge categories required for the ten occupational units presented in Figure 16. Inspection of the table demonstrates the rational basis of our factor solutions. There are distinctions among the factors for patient care and quality assurance, for example, with respect to the knowledge categories required, the extent to which they rise by job level, and the actual levels required. The gaps between levels within and across factors can be ascertained, compared, and used in program design.

INSTRUCTIONAL PLANNING

Instructional planning takes place within the framework of program design. Instruction is organized on the basis of the needs and interests of students and teacher in the context of the classroom and within the constraints imposed by the curriculum and program. According to Johnson, curriculum objectives alone do not fully define instructional content, because:

Instructional content includes not only that which is implied or specified in the correction, but also a large body of instrumental content beleated by the teacher, not to be learned, but to facilitate the desired learning. Concepts and generalizations are not learned directly, but rather through numerous encounters with specific manifestations, the selection of which is an instructional, rather than curricular, function. 3

HSMS can offer suggestions for instructional planning because the skill scales, the Knowledge Classification System, and the task descriptions have instructional implications. We offer suggestions in three areas: first, in the use of task descriptions; second, a somewhat new approach to the teaching of skills; and third, some specific suggestions for the classroom presentation of certain of the skills.

Task Descriptions as Instructional Materials

The HSMS task descriptions function as a source of procedural knowledge: the procedures and sequences for the individual tasks. As instructional materials for the classroom and for clinical training, they provide ordered, logical sequences of teps. They suggest what contin-



³ Johnson, op. cit., p. 131

gencies, options, and emergencies are associated with the tasks, and, for the less familiar specialties, an indication of what is done in a given procedure.

The existence of the task descriptions themselves provides textual materials that are lacking in certain areas. For example, we have found no existing textbooks which describe clinical procedures in a consistent format, in appropriate sequences, and with reference to contingencies. Little sequential or detailed information exists for many contrast studies in which radiologic technologists carry out radiographic functions, particularly angiography.

The task descriptions are portrayals of what the clinical experience will be, including what is used and the interactions that occur. As a result, the task descriptions can be used in the development of team training. For any given occupational level, such as radiologic technology, the task descriptions for higher-level jobs such as physicist and radiologist can be used to provide students with an understanding of the work behavior to be expected of these members of the team. Wolume 1 of Research Report No. 7, which contains the radiologist tasks, may be an aid in the instruction of technologists.

Teaching the Skills

The HSMS curriculum objectives are primarily of two types, skill objectives and knowledge objectives. A skill, as defined in the HSMS method, is displayed when an individual carries out a mental or physical activity. Detailed information and comprehension of the theory of specific disciplines or subject areas, and information on how things func-

tion, how to use them, or what to do, is knowledge. Applying or using the knowledge in a job task requires skills.

The critical distinction between skill and knowledge, given that they are both treated as teachable, is that skills require practice if they are to be learned. Knowledge is learned primarily through didactic means. Skills may sometimes be introduced in an instructional setting, such as in a classroom or lecture room, but actual learning does not take place until there is practice. The basic component in what one learns through "experience" is skill.

We suggest that skills be taught directly and consciously, and that their salient characteristics should be explicitly presented. Skills dealing with personal interaction, decision making, and cognitive processes are exercised in the application of knowledge. They are the basis of judgment, problem solving, and evaluation. While entire courses of study could required in the hope that the skills are semenow acquired by students, but could be done to ensure their rapid acquisition within the instructional setting if they were taught purposefully.

J. P. Guilford advocates the conscious development of the intellectual skills on the part of the educator, and suggests that, "The choice of curriculum should give attention to opportunities that different courses and subject matters have for development of the general skills as well as for their more immediate and special attilities." He indicates

Guilford, J. P., The Nature of Human Letelligence, New York: McGraw-Hill Book Co., 1967, p. 475.

the value of teaching skills directly through practice and in connection with the knowledges to be applied.

We assume that when skills are taught and learned what is transferable are the attributes of the skills (as described in the HSMS scales). This is independent of substantive content. However, while skills can be taught and learned regardless of which specific procedures or knowledges are used to constitute the substantive content when the skill is applied, no skill can be learned without some substantive content. The implication is that what must be taught in each new situation are the knowledges and procedures of the tuation. The skill, once learned at a given scale value, is available to the learner for use at that level in another context. We assume that, all other things being equal, a student who has been able to master a task using scale value 3.5 for a given skill, has less to learn for a second task which also requires scale value 3.5 for the skill that does someone who has never learned to perform at level 3.5 for the skill in any context. These different contexts are the obvious substantive contents which should be used to teach the skills

Instruction can be specifically geared to draw on the interrelationships of skills and knowledge, and can utilize the different knowledge areas to specifically develop the skills. The skills can be used to
develop the understanding of the knowledge. If in tructional planning emphasizes the direct teaching of skills as well as knowledge, needlessly
long and unduly inadequate training might be eliminated to an extent not
yet imagined.

Op. cit., p. 476.

The direct teaching of skills and the link in curriculum objectives between skills and task activities may make it possible to provide students with the quality training needed to improve the health called delivered to the patients served by the occupations being studied.

Notes on Teaching Specific Skills

The HSMS method includes two interpersonal skills. One is "Human Interaction." It is exercised whenever a task requires the performer to come into contact or interact with other persons. The second is "Leadership." It is exercised whenever a task requires the performer to relate to subordinates so as to influence their work behavior. Both of these scales have scaling principles which describe the circumstances under which the skills must be exercised, rather than the nature of the skills. This is because interpersonal skills may be exercised in ways which are unique the performer and reflect his or her individual personality. These skills can be taught independently of individual personality differences by teaching the circumstances that require them and the outcomes required.

The interpersonal skills may be taught best by combining direct experiential techniques, such as note playing and sensitivity training, with didactic emphasis on the task circumstances that call for the skills. For example, human interaction involves awareness of the "relevant characteristics" of the "other" in the task. What these characteristics are varies with the task and must be consciously taught. On the other hand, the conditions which require various degrees of leadership may var from institution to institution. Instruction must cover how to assess the conditions that require different levels of leadership.

The skills dealing with financial consequences of error and consequences of error to humans are used to scale tasks for the most serious likely error to be expected after adequate training has taken place. In teaching these "responsibility" skills, however, pre-training, intraining, and post-training errors should be taught, and emphasis should be placed on the avoidance of all error as well as on the consequences of error.

USE OF CURRICULUM OBJECTIVES FOR EVALUATION

Evaluation turns the various stages of the educational process into a system; evaluation is the link between occupational preparation and employment; and evaluation can be used to provide credit for occupational preparation that has been obtained in nonconventional ways.

May or may not correspond to instructional objectives; even if the instructional objectives have been met, these may not correspond to the intended learning outcomes of the curriculum objectives; there is always the possibility that mastery of the curriculum objectives does not produce the hoped-for performance on the job that is expressed in educational objectives. Evaluation at each stage in the process makes it possible to revise the work at that stage to achieve the objectives of the prior stage.

In many health services occupations, passing licensure and/or registration examinations, and/or successful completion of occupational programs are requirements for employment. Examinations are therefore a form of evaluation, telling the graduate whether or not he or she has mastered the credential requirements for an occupation (whether or not these correspond to the needs of the job).

For the individual student or employee, access to upward mobility or mobility across occupations can be promoted if there is a way to credit the individual for competent work performance and/or occupational preparation. Appropriate evaluation can make it possible to grant credits or advanced standing to individuals to enable them to enter or reemter an occupational ogram without redoing work already mastered. It can permit persons who have achieved mastery through self-study or experience to enter credentialed occupations; and it can facilitate movement across occupations by eliminating redundant educational requirements.

Evaluation is also a cornerstone of individualized instruction. It can permit students to move from one curriculum "module" to the next when appropriate mastery is displayed, or it can permit students be exempted from dourse work on the evidence of mastery. Job relevant, performance-based evaluation is the key to equal employment opportunity. The fact that a test measures work performance rather than classroom performance is a prima facie argument for the content validity of that test as a means to determine entry to an occupation or employment in a job.

Direct evaluation of work performance can only be done within the employer's institution. Job evaluation is the assessment of the performance of employed individuals or the clinical practice of students within the work setting. In order to evaluate the competence of individuals before employment but after preparation, testing must be done.

Tests eliminate the need to be in the actual work setting; but such testing must be standardized and must have content validity, i.e., must be shown to be actually measuring work competence. Proficiency tests are de-

signed for such purposes. They are expected to measure the extent to which individuals are able to carry out specific work activities. Such tests are valid if the items truly measure preparation for work.

We deal below with the direct use of HSMS curriculum objectives to evaluate students and with the use of the HSMS curriculum objectives as inputs to the development of valid proficiency tests.

The HSMS curriculum objectives are behavioral statments that describe work activities, describe the conditions under which the activities are to be demonstrated, and include reference to the skills or knowledges to be utilized in the activities. If one further step is taken, the curriculum objectives can be transformed into evaluation instruments. That step is the provision of competency standards for each curriculum objective. Once the competency standards are known, students can be rated; the result would be criterion-referenced evaluation instruments.

The standards for the curriculum objectives could be determined by the instructor, program designer, or a team of experts. The result could be provision of competency-based education, wherein the competency is referenced to the ultimate job application rather than to the classroom. The modules for such a program would be curriculum modules.

[&]quot;Competency-based" education utilizes a series of pre- and post-tests for each module in a program. The tests are directly related to what is covered in the module and are equivalent in difficulty and range. Before beginning a module, each student takes a pre-test. If he or she meets the criterion for success, the student is given credit for the module and goes on to the next unit. If not, the student takes the module and, after completing the work, is allowed to take the post-test. Not until a student has met the criterion for success is credit given for the module and the student allowed to me.

Competency-based education, which usually means individualized instruction, makes it possible to eliminate formal time requirements. The conventional use of a fixed amount of time which must be spent in approved or accredited programs before the individual may enter into an occupation (or sit for a licensure or certification examination) makes the implicit assumption that time equals adequacy of preparation. But the arbitrary assignment of time requirements is no guarantee that students will be adequately trained; increase of time requirements sometimes suggested for programs is no guarantee that student performance will be improved. It is more important to make sure that curriculum requirements reflect task requirements and educational objectives.

A standard time requirement is a penalty against talented students. Particularly when clinical training is an important proportion of the curriculum, demonstration of successful mastery of intended learning outcomes, competency-based education, and criterion-referenced evaluation seem more appropriate mechanisms. Talented students who can master the classroom preparation and clinical practice quickly would be able to enter the shortage labor markets more rapidly and would be earning income more quickly. Students with learning difficulties would be less likely to be in practice and would be more identifiable for diagnosis and remedial educational services.

This approach to evaluation could also be used to determine student readiness to pass from laboratory to clinical work, or to ascertain when clinical work was successfully completed. The result of such evaluation might be greater safety for the patients who are involved in clinical practice.

PROFICIENCY TESTING

Proficiency tests in the area of occupational licensure or certification purport to measure those competencies that define the requirements for entry into given occupations. The tests are often designed to be administered as paper and pencil tests, sometimes on a nationwide basis. The proficiency test is generally used by licensure and registration agencies as a prerequisite to practice in an occupation. The tests could be used to permit individuals who do not have the formal education required to demonstrate that they are qualified to enter an occupation and are able to function at quality levels set by the profession or by a government agency.

Increasingly, the developers of proficiency tests for health services occupations are being asked to provide tests that are work related. They are also being required to develop criterion-referenced rather than norm-referenced tests. The issue of job relevant content validity has constitutional implications. However, there is still much confusion about what forms of reliability and validity are appropriate. There is also confusion about the difference between construction of norm-referenced tests and construction of criterion-referenced tests. Other issues relate to appropriate test construction and content selection if the tests are to be acceptable to the organizations involved in registration or licensure of individuals and to educational institutions who might use the tests to grant advanced standing in instructional programs.

Working Paper No. 12 will appear in the fall of 1977, and will deal with these issues.

When a test measures anything other than job-related competence, its validity is attenuated. Thus, if a test measures classroom behavior required in accredited programs, and any of the classroom behavior is not job relevant, the test's relevance is decreased and its validity for evaluating job-related competencies is also decreased.

When proficiency test content is selected by "experts" who are academically oriented, the tests can be more related to academic instructional objectives than to work requirements. If a portion of the test takers are graduated from hospital-based occupational programs or are the products of informal means of preparation, such academically oriented tests can penalize them while favoring graduates of academic programs.

In an attempt to make proficiency tests job relevant, test constructors are being encouraged to refer to task data. However, task data are usually task inventories and not task descriptions; traditionally, the professionals in an occupation are enlisted to develop the task data.

Another problem in testing is that of sampling. Any proficiency test for an occupation can only sample from the universe of work behaviors associated with the occupation. Therefore, the appropriateness of sampling becomes a crucial problem. Traditional test design methods that use task data provide no clear-cut guidelines for content selection; they rely on experts in the occupation who are trained neither in job analysis nor in test construction.

The experts also decide on the level of difficulty of tasks.

This usually refers to abstract qualities of "difficulty" or "responsibility" and not to a taxonomy of skills and knowledges which are scalable.

The frequency or centrality of tasks is determined by a sample survey of institutions or by consulting experts.

We believe that it is feasible to remove content selection for proficiency tests from subjective or unfocused processes which usually result when an objective method and a common frame of reference do not exist. Test construction decisions can be objective, explicit, and defensible. In our opinion, the HSMS methods of task analysis and curriculum design and the HSMS curriculum objectives provide the objectivity, logic, and focus needed for the selection of test content. The use of curriculum objectives such as those in Chapter 9 as the source of test items provides built-in content validity because these objectives are taken directly from task language and completely bypass classroom behaviors. They provide professional standards because they are based on normative task descriptions which have been reviewed by leaders in the occupation. The experts thus provide inputs to the area where they have expertise.

An HSMS behavioral curriculum objective defines the universe of content from which one can generate test items that measure competence in a particular work-related skill or knowledge, at a level of difficulty determined by the nature of the task activity. The information at the top of the curriculum objective indicates the number of tasks for which the skill or knowledge at a given scale value is relevant. Thus, frequency across all the tasks of the occupation is known and can be used as a reference for weighting or to determine centrality.

The various task behaviors listed on a given curriculum objective provide alternative content areas for alternate test items, since 7-26

each refers to the same scale value. The work content of the curriculum objectives is so apparent that the test items readily suggest themselves.

It is possible to develop test items that are in a scale relationship to one another for a given content area to differentiate levels of proficiency. This is possible because some skill and knowledge categories are required at varying scale values, and there are separate curriculum objectives for each. To summarize:

- HSMS curriculum objectives offer a way to build content validity into proficiency examinations because there is nothing one can choose for test items that is not relevant to the work.
- 2. The HSMS curriculum objectives identify work content that can be used for the development of alternate test items. That is, if several activities in different tasks scale at the same level for a given skill or knowledge, they provide alternative contents for test items.
- 3. HSMS curriculum objectives make it possible to objectively determine the centrality and frequency of specific task (work) behaviors that require skills and knowledges at given scale values.
- 4. HSMS curriculum objectives make it possible to arrange test items in order of difficulty of task activities by virtue of the HSMS scale values assigned to each curriculum objective.

In Chapter 3 of this report we discussed the development of performance evaluation instruments. These can be used for a further test of the content validity of test items. Since the same task data can be used for performance evaluation instruments and for the development of curriculum objectives, the test can be formally validated by applying both the performance evaluation instruments and the test to a known population of incumbents in an occupation. On the basis of this type of information,

the test can be constructed to evaluate mastery and also to discriminate among test takers.

USE OF CURRICULUM OBJECTIVES FOR CURRICULUM ANALYSIS

The HSMS curriculum objectives are behavioral statements about learning outcomes. They therefore can supply a common frame of reference for discussions about new curricula, curriculum overlap, credit for advanced standing, articulation of programs, justification or elimination of course work, comparison of curriculum requirements, or diagnosis of inadequate curriculum content.

Curriculum Change

Educational programs are under pressure to change in order to accommodate socially engendered requirements such as treating the patient with dignity, arranging for informed consent, and providing maximum safety; they are under pressure to change in order to accommodate new technologies such as computerized transverse axial tomography and ultrasonic scanning. Change is necessary if the graduates of occupational programs are to perform appropriately in the institutions which hire them.

The HSMS method of job analysis, job ladder design, and curriculum design make possible an ongoing accommodation to changes in program curricula. Regardless of the source of change, the results can be translated as follows:

- 1. Changes in task descriptions.
- 2. Elimination of obsolete tasks.
- Creation of new tasks; skill and knowledge scaling of new tasks.
- 4. Changes in the skills and/or knowledges required for task performance.





the HSMS methods make is possible to incorporate any such changes into the task data base. This means that the new or changed tasks can immediately be located in their positions on factors and in task hierarchies through inspection or statistical analysis. This, in turn, means that new or changed tasks can be assigned to the jobs or occupations where the additional preparation required to teach their performance would be at a minimum.

The new tasks can be readily incorporated into the curriculum guidelines and curriculum objectives, including, if appropriate, the specification of new educational objectives and creation of new curriculum objectives. All that is needed by the institution is access to the methods. Short of following all the technical procedures, the structure of HSMS task and curriculum objective data is so apparent that a common-sense simulation of the methods would be adequate to accommodate the needed changes in curricula. A similar approach can be taken to remove from curricula the objectives associated with obsolete tasks.

Revision of Curricula

Chapter 4 of Working Paper No. 11 describes ways in which HSMS curriculum objectives can be used to compare existing curricula to identify overlap of content across programs, to find unnecessary requirements, and to pinpoint areas not adequately covered. It describes how to use the HSMS curriculum objectives to provide for articulation of programs through granting credits, advanced standing and/or exemptions for students who move from one program to another. The curriculum objectives provide



⁸ Op. cit., Chapter 4.

concrete references about what the given curricula do or do not teach the student to do. The HSMS curriculum objectives can be used similarly for critical evaluation of current curriculum offerings and can be used, as the curriculum objectives can be used as a common frame of reference to compare one set of curriculum requirements with another. In all of these undertakings, the curriculum objectives help the educator to pinpoint the content and outcomes of course material.

Curriculum Review

Elimination of irrelevant or redundant curriculum content can, by shortening the preparation time required, enhance upward mobility. Table 2, below, is a framework within which program requirements can be evaluated. It indicates the highest scale values of the various skills and knowledges required for the ten occupational-educational units presentin Figure 16. This table Indicates that physics categories such as "atomic structure" and "atomic radiation processes" are not required for the technician and technologist tasks, but "interaction with radiation" and "radiobiology" are needed. In addition, the table provides an indication of how subject area content can be sequenced to provide articulation of programs. For example, Fradiobiology" can be introduced at the patient care aide level at the instructional equivalent to a scale value of 1.5 or the patient care technician level at 2.5; this can be added to at the technologist level at 3.5, with credit for the 1.5 or 2.5 content and no redundancy in instruction. The educational step to the program for radiation physicist need only offer the work required to bring the mastery of. the subject to the performance level indicated by a scale value of 5.5.

Table 2. SKILLS AND KNOWLEDGES BY TASK FACTOR AND LEVEL IN PATIENT CARE, QUALITY.

ASSURANCE, RADIOLOGIC TECHNOLOGY, AND ADMINISTRATION IN DEAGNOSTIC RADIOLOGY

Page 1 of 8

ASSURANCE, RADIOLOGIC TECHNOLOGY, AND ADMIN	IST	RATION	(IN I	DIAGNOS'	TIC	RADIO:	LOGY	1		Pag	e lof	8
		LEA	el l	[Leve	1,2	Leve	e1_3	Le	vel 4		Levèl	_5
Skill or Knowledge Category	,	Pt.	Qual.	Pt. Q	uaN	Rad⊊.	Ad-	Rad.	Ad-	Pt:	Qual.	•
Number and Name	l	Care	Ass.	Care. A	se_	Tech.	min.	Tech.	min.	Care	Ass.	
Object Manipulation Skills		3.5	5.0	7.5-				3.5		5.0	3.5	
Guiding or Steering Skills			1.5	3.0				1,5		4 0	-	
Human Interaction Skills'		5.0	13.0	7.0	3.0	5 🕻 0 -	5.0	5.Q	5.0	7. 0	5.0	
Leadership Skills			110	4,5	-	, · .		4.5	4.5	4.5	-	
Oral Use of a Relevant Language	•	4.0	4.0	4.40	4.0	7.5	4.0	7.5	4.0	4.0	7.5	ŧ
Reading Use of a Relevant Language	•	2.0	5.0	5.0	5 : 0	5.04	2.D	5.0	2.0	5.0	7.0	
Written Use of a Releast anguage	١	2.0	2.0	2.0	5:0	2:0	2.0	5.0	.5.0	2.0	5.0	
Decision Making on Methods		4.5	3.0	,7.0	4.5	4.5	3.0	4.5	4.5	. 2.0	7.0	
Secision Making on Quality	/	'7. .	3.5	3.5	7.0	7.0	7.0	7.0	7.0°	7.0	70	
Figural Skills		1.0		1.0	3.5	5.0		5.0	^{'،}	-	'5. 0	
mbolic Skills			1.5		1.5	1.5	•	1.5			3.5.	
Taxonomic, Skills.	aj.	· . (2.0	2.0	2.0		350 0	,,,	2.0	5.5	
Implicative Skills		2.0'	1.0	5.0	2.Ó	2:0	1.0	2.0	1.0	5,0	4.0	
Financial Consequences of Error		1.0	4.0	1.0	4.0	4.0	1.0	1.0	1.0	1.0	4.0	
Consequences of Error To Humans	•	7.0	- 55	7.0	7.0	7.0	3.0	0,7.	3,0	5.5	7.0	•
		1	,				A	٠١.	. X-		-	
11731000 Normal structure and function (human anatomy		ŧ	è.	♣.		2.5.		(3.5				
and physiology)	*			-			~	٧.	•		•	
1171100 Regional anatomy (includes head, and neck;					5.5	ን.ዕ.୯		7.0	4	3.5	. 5.5	
thorax and abdomen, pelvis, and perineum,	-	-		\			A					
lower and upper limbs, and skeleton)		• .						•			• .	
11731200 Topographic anatomy (relation of external		2.5		3.5	٠.	7.0		7.0	•	3.5		
manifestations to internal structure and				• ,		•	^ F	•				•
function)		-							•		•	
11731300 Hematopoietic system (includes blood, red		:				1.5		1.5				
and white blood calls, platelets, and bone				•				•	2	<u> </u>		
marrow, liver and spleen in their blood	•	• •		1				_	` , T			
fo ming function)		•	•					-	, –	•		ï
A Reflects factor structure of 6-factor solution for the	0 P.	un 3 o	nd 1 D.	·** / + 50	o le o	110+0	1 1 5	Annak	HIV A	Pat	iont	-

Reflects factor structure of 6-factor solution for the Run 3 and Run 4 tasks listed in Appendix A. Patient are (Pt. Care) corresponds to Factor IV; Quality Assurance (Qual. Ass.) corresponds to Factor VI; Radiologic Technology (Rad. Tech.) corresponds to Factor III; Administration (Admin.) corresponds to Non-factor A. Numbers in columns refer to the highest scale values required in a given skill or knowledge categor, in a given factor, at a given level. Level 1 refers to aide; level 2 is technician; level 3 is technologist; level 4 is supervisor and junior professional; level 5 is professional.

·	Table 2	(continued)		,	Pas	ge 2 of 8
ſ			vel 3	Lev	vel 4	Level 5
1		Pt. Qual Pt. Qual Rad.				
	Knowledge	ge Category Number and Name . Care Ass. Care Ass. Tech	. mín.	Tech.	min. Care	Ass.
_	11731400	O Circulatory system (cardiovascular system; 1.5 2.5 1.5	-	3.5	2.5	5
٠.	•	includes hearth veins, arteries, lymphatics)			•	
	11731500	O Respiratory system 2.5 1.5	j	2.5	2.5	, ,
		O Digestive system . 1.5	5	2.5		
	11731610	0 Mouth, pharynx (digestive function), esophagus 1.5	j '	2.5	*	
. `	• •	(includes tongue, teeth, and salivary glands)		•	,	196
	11731620	0 Stomach and small intestine (includes duodenum, 1.5	,	2 - 5	•	*
		jejunum, ileum)	-	_		•
•	11731630	O Large intestine (colon) and rectum (includes . 1:5	j	2.5		
		appendix, anus, and mesentery) $ackslash$				
	117,31640	O Liver, biliary system, and pancreas (includes 1.5	•	2.5	•	•
-	٠, ٣	gallbladder, cystic duct, bile duct, pancreatic				•
		duct, ampulla of Vater)				
	11731700	O Urinary system (includes kidn ureter, bladder, 3.5 1.5	1	2.5	2.5	j .
		urethra, external genitalia)				
	11731800			5.5		•
	11731820			7.0		,
	11731910			2.5	•	
	11731943	· · · · · · · · · · · · · · · · · · ·		1.5	2.6	•,
	11732100	, , ,	,		, 3.5)
	1170000	mechanisms, humoral and cellular factors)		. .		
)		2 Male reproductive system 1.5		1.5		
,	11/3/2/23	3 Female reproductive system (includes ovulation, 1.5)	. 2.5	·	
	. 11730200	conception, pregnancy changes)			2.5	
	11/3/200	O Homeostasis of fluids (includes fluid and		,	2.2	,
	11722200	electrolyte balance)	:	2,5.	•	
•		O Neoplasms (cancerous growths) 1.5 O Disorders of blood and blood-forming organs 1.5			(
		1,		. 1.5 2.5		
		O Disorders of the central nervous system 1.5 1.5 2.5 O Disorders of the circulatory system 1.5 1.5 2.5		3.5	3.6	· د
		0 Disorders of the digestive system 1.5 1.5 2.5		2.5	. 3,5	
	11733800		_	3.5	3.5	
′,*	11733900			2. 5	3.5	· ~
		- Japonders of the dro-genital system , 1.3	, 			· · ·

7-32

Table	2 (continued)	•	4	7	.•	<u> </u>	Pas	e يُ of 8
*			el l	kevel 2	Leve	el Le		
						Ad-Rad.		
	dge Category Number and Name	· Care	Ass. C	are Ass.	Tech.	min.Tech.	min.Care	Ass.
117342	00 Disorders of the musculoskeletal system :	•		•	2.5	3.5	3.5	, ,
•	and connective tissue /		• -	··.	• .	.•	.	•
	00` · Congenital abnormalities .	> 1		•	1.5	2.5	. 🅊	
4 1173 4 4	, , , , , , , , , , , , , , , , , , ,	• 64	,		1.5	2.5	• •	
	childbirth and the puerperium	, (•		•	•		
117346		,		3:5			3.5	
117348		,	•	3.5	2.5.	. 2.5	5.5	
117350			, .		1.5	1.5		
11/3/11	00. Operative procedures (also includes biopsy,			1.5	1.5	1.5	, 2.5	
	removal of tumors, removal of organs,	•			•	*	•	
117350	Caesarian section, removal of drains)	•						
117353	, , , , , , , , , , , , , , , , , , , ,	•		· -/_	1·.5 1.5	1.5	7 2	•
117354		A	₩ .5 •	3.5 -	1.5	3.5	5.5	÷
٠.			• •			* g		•
117275	intubation, tracheotomy)		A		` · ·	/	•	
117355				٠ , ډ	1.5	1.5	2.5	
• •	bronchi, esophagus, duadenum, colon, etc.			•,		e ,		*
11-73560	with an endoscope)		•	, <i>`</i> ~			•	
114 3300	OO Suture (also includes ligature, suture, materials)	•		1.5	,		-,	, ,
117358		•	• 1		1 5	. , .		
117360			•		1.5	1.5		٠.
117370	2 0)	•		7 0	3.5	1.3	7.0	
117371		. 1.5		7.0 3.5	1.5	3.5 2.5	3.5	
117372	9 / 0 / 1	1.5		3.5	1.,	د. ـ	. 3.5	
117373	• • • • • • • • • • • • • • • • • • • •	3.5		5.5	, 5.5	5.5	3.5	•
``	wounded ,			J.J	٠.,	ر , ر	ر . ر	•
1173740	00 Sprains, strains, fractures and their			3.5	2.5	3,5	3.5	+
,	healing		\					, =
117376				7.0			7.0	章
117377). Wounds and their healing (ars) includes			5.5	2.5	2.5	3.5	
۱	operative incisions)					•		
		,						· · · · · · · · · · · · · · · · · · ·



Table 2	(confinued)	• .								<u> e</u>	
		Lev	el l	Le	el 2	Lev	el 3	Lev	el +	Level	
· · val	- 1	Pt.	mai	Pt.	Oual	Rad.	Ad− [F	Ra d .	id- Pt.	Qual.	
Knowledge									min.Care		_
11738000	Asepsis (concepts and techniques involved in	3.5	.2.5	3.5	` _	. 3'. 5		3.5	3.5	, –	
	achievement of sterile condition; includes										•
	concurrent and terminal disinfection during .			•	•			• ,		•	
i	surgery, aspects of sterilization of imple-		•	•					&	•	
•	ments ad equipment)	. 4	•	2 -	3 6	; =		2 = •	· ·		
12210000		j. . 3		- 2.5	٥,٠	3.5	• •	3.)	1	, ,,,	
	on living reanisms; includes effects of							•		•	
	ioniaing electromagnetic, citraviolet, sonic									_	
•	and particulate radiation, biological safety			-	<u>.</u>				4	1	
13300000	requirements and protection)	_		,	▼ .		•	-		2 2 ₹5	
12 2 20000		•				-				₩.,,	
•	tion of radiant energy including electromag- metic and particulate radiation) '		, .		•			_		-	
111216.56	Radiotherapy application of electromagnetic	•	,		7			-	/ *	2.5	
122219 39	and particulate schizing radiation to 11 ang					* 1	•	•			
	and pireleding Femiling faultation to in the family some therapeutic purposes; includes	•	, .		٠.		4	` , ^			
	Letermination of course of treatment and						- ',	, ,		,	•
•	administration of treatment)					•	•				
2 + 170.70	Radionuclide therapy (part of nuclear medicine:	•	*						•	2.5	
,	internal application of unscaled sources of	``		•		•	•		• •	_	
	parti whate radiation (radipactive materials)						•			•	<
	to living organisms for therapeutic purposes;	•	,				•				
	includes determination of course of treatment						J	• ,		•	
	and use 'of radionuclides)			/			>	•			
12223000	· Diagnostic radiography (application of electro-	2.5	2.5	2.5	5.5	7.0	_ \ \	7.0	3.5	, , , ,	
	magnetic ionizing radiation such as y-rays	1.		•		•			√		
	to ichieve interpretable images for diag	•	•								
	nostii purposes; also includes fluoroscop".					•	٠.	-			
,	use of Telated technique, intrast media,				,		÷, -		• , ,		
-	procedures, positioning, interprecation of					,		1	,		•
	images:			1			* * .	4.			
					•						

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	Table 2	(continued)		,		•	~ ` .'				Page	e 5 of	8
Ī	-		Le	vel 1	i Le	vel 2	Lev	el 3	·lev	'el 4		Level	5
	,		Pt.	.Qual	. Pt.	Qua l	Rad:	Ad- I	Rad.	Ad-	Pt.	Qual.	
	Knowledge	Category Number and Name					Tech.						╛
_		Radionuclide analysis (part of nuclear	,			,					•	🗳.5 ·	
•	· • • · ·	medicine; internal application of unsealed	•		•			•		•	_	·	
		radioactive nuclides to living organisms		•	•			k			•	•	
٠.		for the purpose of diagnosis or investiga-					• ,						
		tion; includes use of radioisotope scanning,				· ــــــــــــــــــــــــــــــــــــ						•	
•		(tracer techniques), related procedures,				1 .	, .					• •	
•		positioning)		,	;				-		•		
	12300000	Pharmacology (the study of drugs, i.e.,		1.5	1.5	-					-		
	•	chemical compounds or noninfectious	,			•		•		^			
		biological substances which may be adminis-				•	•						
	•	tered as an aid in the diagnosis, treatment	-	_ 1									
		or prevention of disease, for the relief of		7	,	•	-) =	· · ·	•		. >		•
	, .	pain or suffering, or to control or improve	•	•			•			. /	, ,		
		any physiological or pathological condition)		•			•						
-	12331000	Drug toxicit (includes antidotal therapy)			2.5		1.5	/	1,.5	4	-25	•	4 .
	12332000	Drug idiosyncrasy and allergy pharmocogenetics			2.5		1.5	•	.1.5		2.5		•
		(includes increased sensitivity to drugs,	i				_						1
		decreased responsiveness to drugs, novel	٠ :									1	
		drug effects, etc., which are due to	<u>.</u> .	-	-	•	1			ຳ 79	•		
		inherited physical characteristics)			•	•			•	• /			
	12334000	Drug tolerance and physical dependence			, 2.5					4	2.5		
		(includes homeostatic adjustment, cumulative				-				_	,. •		
		effects, tolerance at the site of drug 🔈	4 -	•		•		x *					
•		action) '						•		•			
	12335000	Drug synergism (presence of two or more drugs		•	. 2.5		•			, ,	2.5	.,	
		in the body having interaction effects and							`		1		
	•	the change in drug action this causes)			•		-				. .		
	12336000	Chemical teratogenesis (special effects of			.2.5	i					2.5	, `	
	•	drugs on the fetus ing pregnancy).	•								•	•	_
-		,						•		,			٠



		and smooth muscle					
	12342200	Drugs acting on the blood		1	, 3.5		
	12342300	Hormones and drugs acting on endocrine			3.5	•	
		glands and accessory reproductive organs					
	12342600	Drugs for allergy, cough, vomiting and the	Į.		3.5	ş	•
7	• 4	dermatomucosal surfaces	·			,	
- 36	12342700	Drugs acting on the gastrointestinal	<i>+</i> '		3.5		
6	•	tract (includes drugs effective in ulcer					
	<u>ن</u>	therapy, cathartics and laxatives,		•	•		
		digestants and drugs useful in gallbladder					
•	•	disease)	· ·				
	12342800	Drugs acting on the nervous system ·					

Table 2- (comtinued)

12342100

12342830

14111000

Knowledge Category Number and Name

fungal agents)

12341300 Cancer and virus chemotherapy

12341100 Antibacterial and antifungal chemotherapy

(includes antiseptics and germicides, sulfonamides, penicillins, erythromycin, tetracyclines, and broad spectrum antibiotics, streptomycin, sulfones, anti-

Drugs acting on the cardiovascular system

12342810 Drugs acting on the autonomic hervous system

15212100* Electric circuit theory (includes Ohm's law,

Drugs acting on the central nervous system

Solutions (mechanical, optical, colligative

Kirchhoff's laws, impedance, inductance, resistance, amperage, voltage, potentiometry, bridges, alternating and direct current, wave-guides, transmission)

12342820 Drugs acting on the neuromuscular system

12342900 Drugs acting on the immunologic system.

properties)

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Page 6 of 8

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Level 5

Level 4

Level 2

3.5

3.5

3.5

3.5

3.5

3.5

1.5

Level 1

Level 3

Pt. Qual. Pt. Qual. Rad. Ad- Rad. Ad- Pt. Qual. Care Ass. Care Ass. Tech. min. Tech. min. Care Ass.

Table 2 (continued) Level Level 2 Level 3 Level 4 Level Pt. Qual							•						_
Knowledge Category Number and Name Pt. Qual. Pt. Qual. Rad. Ad- Rad. Ad- Pt. Qual. Scare Ass. Tech. min. Tech. Min. Care Ass. 15222100 Atomic structure (includes nuclear atom model, electronic energy levels, magnetic spin-orbit interaction). 15222200 Atomic radiation processes (includes ionization potentials, line spectra-transitions between electronic energy levels, forbidden lines, Zeeman effect, Stark effect, band structure-rotational spectra- radiation (includes inversion spectra-absorption of microwave radiation) 15222500 Interaction with radiation (includes inversion spectra-absorption of microwave radiation) 24110000 Electromagnetic field theory applications (includes electric motors, electric generators, relays, solemoids) 24122000 Transducers and rotating machines (includes electric motors, electric generators, relays, solemoids) 24132100 Electronic devices 1.5 1.5 1.5 2.5 33000000 Computer technology 1.5 1.5 1.5 2.5 33000000 Computer technology 1.5 1.5 1.5 2.5 42630000 Professional and graduate education 1.5 1.5 1.5 2.5 42630000 Professional and graduate education 1.5 1.5 1.5 1.5 1.5 52220000 Descriptive statistics (includes standard frequency and distribution functions, mean, median, and mode, measures of dispersion, 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Table 2	(continued)							, , _				
Rnowladge Category Number and Name			Lev	<i>r</i> el 1	/ Le	vel 2	Lev	el 3	Le	vel 4			
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frequency and distribution functions, mean, median, and mode, measures of dispersion,		<u> </u>					1.5		1.5			1.5	
median, and mode, measures of dispersion,	52220000		4	•	/~	1.5				-		1.5	
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		graphic and tabular representation of, data)			1.		- I	,					

Table 2 .(continued) '

	· (concinaca)		-	,					
•	- 1		•	þ	Level 1	Level 2	Level 3	Level 4	Level 5
• •			-		Pt. Qual.	Pt. Qual	.Rad. Ad-	Rad. Ad- Pt.	Qual.
Knowledge	Category Number and Name			1				Tech. min.Care	
65260000	Photography and cinematógraphy	у .	 -		t, •	71.5	•		2.5
65620000	Mechanics of writing English	(inclaies				3.5	2.5	2.5 2.5 2.5	5.5
	traditional (prescriptive) g			গ	, <u>,</u> , ,	•			

Total Skill and Knowledge Categories (103) . 20 18 53 26 66 9 68 59 35

Note: The scales used in the HSMS method are presented in Appendix C of Volume 1.

The tasks assigned to each factor and level are presented in Appendix E of Volume 1.

punctuation, spelling, bibliographic

and footnote form)

CHAPTER 8

CURRICULUM OUTLINES

presents an ordering of the HSMS curriculum objectives which appear in Chapter 9. The tables are discussed in Chapter 7.

Table 3 is an index of all the curriculum objectives. The objectives are arranged by skill or knowledge category, in rising order by scale value, and by job factor and job level. The table indicates the number of each curriculum objective and the skill, knowledge category, scale value, job factor, and job level which each curriculum objective covers

Tables 4, 5, and 6 present the curriculum objectives for educational ladders. The Curriculum Objective Numbers for all skill and knowledge objectives are presented by scale value and job factor in joblevel sequences. The tables also list the Task Code Numbers for the tasks on which each curriculum objective is based. Table 4 is the outline for the educational ladder that starts in quality assurance; Table 5 is the outline for the ladder that starts in patient care.

Table 6 lists the curriculum objectives for administrative tasks. These can be incorporated as desired in any program. Table 7 is similar to Tables 4 and 5, except that it deals only with the radiation physicist and does not refer to curriculum objectives. Curriculum objectives were not written above the technologist level. The table names and page numbers are as follows:

Chapter 9 is not paginated. Intend, each ourriculum objective is paged separately, and objectives are sented in numerical order. The Curriculum Objective Numbers appear at the upper right, under the page number of the given objective.

able	Title	Page
3.	Curriculum Outline Assuming that Radiologic Technol- ogist Occupation Covers Four Factors and Three Levels.	8-3
4. ,	Curriculum Outline Assuming that Radiologic Technol- ogist Occupation is Reached in Three Stages and Com-	
1	bines the Quality Assurance and Radiologic Technology	
,	Factors.	8-11
.5.	Curriculum Outline Assuming that Radiologic Technologist Occupation Is Reached in Three Stages and Combines the Patient Care and Radiologic Technology Factors.	8-41
6.	Curriculum Outline for Administrative Tasks: To Be Incorporated in Curriculum for the Radiologic Tech-	, , =1
• •	nologist if Desired.	8-71
7:-	Curriculum Requirements for Quality Assurance Pro-	8–73

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Table 3. CURRICULUM OUTLINE ASSUMING THAT RADIOLOGIC TECHNOLOGIST OCCUPATION COVERS FOUR FACTORS AND THREE LEVELS (Index of Curriculum Objectives)

Page 1 of 8

FOUR FACTORS AND THREE LEVELS (Ind	ex or (age 1	
Abbreviated Name of	Scale	P.t.	Qual.	Rad.	Admin.	Cu				Rad.	
Skill or Knowledge Category	Value	Care	Aşsur.	Tech:	(A)	Ca	re_	As	sur.	Tech.	(A)
Object Manipulation Skills	1.5 3.5 5.0 7.5	1, 2 1, 2 2 2	1, 2 ; 1, 2	*3. 3		1 6 11 13	2 7	3 8 12	9	5 . 10	-
Guiding or Steering Skills	I.5 3.0	1, 2	1, 2	3	, ·	14 [°] 18	19	15	16	17,	
Human Interaction Skills	1.0 3.0 5.0 7.0	ì, 2 1, 2 1, 2	1, 2	* 3 3 · · · 3	3 ,	20 26 32 36	21 27 33		23 29	24 <u> </u>	25 31 35
Leadership Skills	1.0	2 2	1.	•	3	37 40	, *	38	,	-	39 - 41
Oral Cse of a Relevant Language	2.0 4.0 7.5	1, 2 1, 2	1, 2 1, 2	, 3 3	3 3	1	*43 48	44	45, 50	51 53	.46 .52
Reading Use of a Relevant Language	2.0	1, ·2 2	1, 2 1, 2	3	3	54 60	55	· 56. 61	.57 .62	58 63.	5 9
Written the of a Relevant Language	2.0 5.0	1; 2	1, 2	3	3.	64	65	66,	67 70	68	69
Decision Making on Methods	1.5 3.0 4.5 7.0	1, 2	1, 2 1, 2.	3,3,	3	7·1 77 8 9 86	72 78		. 74 . 80	75 81 85	7 6 82

a The four factors are: Patient and Emergency Care (IV); Quality Assurance (VI); Radiologic Technology (III); and Administration (non-factor A).

The three levels are: aide (1); technician (2); and technologist (3).

Table 3 (continued)			`	•		1	· P	age 2 of 8
Table 5 (gonernaes)	. 1	• Jol	Levels	s by Fa	ctor	Curric	ulum Obje	ctive Nos.
Abbreviated Name of	Scale	Pt.	Qual.		Admin.	Pt.	Qual.	Rad. Adm.
Skill or Knowledge Category		Care		Tech.		Care	Assur.	Tech. (A)
\(\frac{1}{2}\)	1	,		· ·	, ,	1		c
Decision Making on Quality	1.5	1, 2				87 88	1	•′
	2.0	1, 2	1	3		89 90	91	92
	3.5	1, 2	1, 2	3	3	93 * 94.	95 96	97 98
	5.5	1.		. 3	3			99 100
•	, 7.0	1, 2	2 :	_ 3	3	101 102	103	104 105
				*		<u> </u>	~ .	
Figural Skills	1.0	1, 2	`2. ·	3		106 107	108	1 09 ³
	3.5		2	. 3	_	•	110	111 '
	5.0	1	-	3	•			1 12
						-		
Symbolic Skills'	: 1.5		1, 2	3		<u></u>	113 114	115
	1	1			•		•	•
Taxonomic Skills	§ 2.0	2	2	3		116	117	118
	•							_
Implicative Skills	1.0	1, 2	1, 2	. 3		119 120		123
	2.0	1, 2	2 .	3	•	124 125	126	127
	5.0	12				128		
		-		1	\	·		
fire reial Consequences of Error	1.0	1, 2	1, 2	3	. 3	129 130	131 132	133 134
	4.0	·	1, 2	3		·	135 136	137
		1		.		•	, , , , , , , ,	
Consequences of Error To Humans	1.0	1, 2	1, 2	, 3	3	138 139	140 141	142 143
	2.0	1, 2	1 ,	3		144 145	146	147 .
	3.0	1, 2	1, 2	_ 3		148 149	150 151	152
	5.5	11, 2	1, 2	· 3	•		155 156	157
	7.0	1, 2	2	3		158 459	160	161
	· _			_	, *		´ 3	160
11731000 Normal structure and function	2.5	-		3		·		162
		•		γ.	•		•	163
11731100 Regional anatomy (head and neck,	1 2.5	,	•	3	. ,		161	
 thorax and abdomen, pelvis and 	3.5		2	, 3	•	.	164	165
perineum, lower and upper limbs,	5.5		2 .	3		,	166	167 168
skeleton)	7.0				·			100
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Table 3 (continued)						Page 3 of
,			b Levels by Fa			alum Objective Nos
Abbreviated Name of	Scale	₽t.	•	Admin.	Pt.	Qual. Rad. Adm
Skill or Knowledge Category	Value	Care	Assur Tech	(A)	Care	Assur Tech (A)
			•		*	•
11731200 Topographic anatomy	1.5	1, 2	3		169 170	• 171
	2.5	1	•		172	
• • • • • • • • • • • • • • • • • • •	1 10	2	3		173	′ 174
	5.5		3	•	1	175 .
('	7.0		3		 \ 	<u> </u>
11701000 #	Í		,			
11731300 Hematopoietic system	1.5		3		-	<u> </u>
11721/00 01 1 1 1 1	, _	١		•		- 00
11731400 Circulatory system (cardiovascular	$\begin{array}{c c} 1.5 \\ 2.5 \end{array}$	1, 2	3 -		178 179	,180
System, lymphatics)	2.5	2	- 		181	<u> </u>
11701500 P		•	\		İ	. 0.2
11731500 Respiratory system	1.5	1	¸ ·3			182
	2.5	2			183	
11731600 Digestive system	1 7 5	i	•		ļ	: 18/₁
11731600 Digestive system	1.5	<u>-</u>	3			184
11731610 Mouth, pharynx, esophagus	1.5		3			185
11731010 Modeli, pilatylik, esopilagus	1.5		,		 	100
11731620 Stomach, small intestine	1.5		3			186
11751020 Stomath, Small Intestine	1.7	'				
11731630 Large intestine, rectum	1.5	1	, 3 ,		'	187
11751050 Large Intestine, rectum	1.0	 	<u> </u>		 	
11731640 Liver, biliary system, pancreas	1.5		∵ 3		1	. 188
11751040 piver, Dillary System, panereas	+					,
11731700 Urinary system	1.5	ı	. 3			. 189
11751700 Ullitary byotem		: 2	. ,	,	190	. 107
	3.5	2			191	
, ,	, ,,		 · <u></u>			•
11731800 Musculoskeletal system	2.5	•	3.	•		192
·	_→ 3.5	i	3		1	193
,	5.5	, :	3			194
		i	'		·	

Table 3 (continued) Page 4. of 8

Table 5 (concluded)	1.	Job	Levels by Factor	Curricu	um Objective Nos.
Abbreviated Name of	Scale	Pt.	Qual. Rad. Admin.	Pt.	Qual. Rad. Adm.
Skill or Knowledge Category	Value	Care	Assur. Tech. (A)	. Care	Assur. Tech.(A)
			. 1/	,	•
11731820 Bones and joints	2.5		3.		195
	3.5	ı	3	مد ا	196
	7.0	• •		•	197
11731910 Central nervous system	1.5		3		. 198
•		-	,		100
11731943 Eye and optic nerve	1.5	- , -	3		199
11732222 Male reproductive system	1.5		.3		200
11732223 Female reproductive system	1.5		3		201
		-			
11733200 Neoplasms (cancerous growths)	1.5		3		202
11733400 Disorders of blood, blood-forming	1				202
organs	1.5		, 3		203
11733510 Disorders of central nervous	1.5		3	†	₹ 204
system	1.5		,,	-	1 204
11733600 Disarders of circulatory system	1.5	1, 2	3	205 206	. 207
	2.5	-, -,	3	203 200	208
,	1.				
11733700 Disorders of digestive system	1.5		3 -		209
	1			,	
11733800 Disorders of respiratory system	1.5		3		/ 210
•	2.5		. 3		211
11722000 Diaming of war and all amounts	1 5		3		212
11733900 Disorders of uro-genital system	1.5	 	<u>, , , , , , , , , , , , , , , , , , , </u>		- 212
11734200 Disorders of musculoskeletal	1.5		3		. 213
system	2.5	1	, 3 3		214
•	1	-			•
11734300 Congenital abnormalities	1.5	<u> </u>	3	بد	215
11734400 Disorders, complications of				,	
pregnancy, birth	1.5		3	l	216
				<u> </u>	

,79



Table 3 (continued) ' Page 5 of 8 Curriculum Objective Nos Job Levels by Eactor Qual. Rad. Adm. Abbreviated Name of Qual: Rad. Admin. Pt. Scale Pt. Skill or Knowledge Category. (A)* Assur. Tech.(A) Value Assur. Tech. Care Care 11734600 Burns 3.5 2 ` -217 11734800 Shock and trauma 218 1.5 219 2.5 3.5 220 221 11735000 Surgery. 1.5 11735100 Operative procedures 1.5. 222 - 223 11735300 Repair surgery ' **~** 224 1.5 11735400 Introductory procedures 226 227 1.5 225 228 229 2.5 3.5 230 231 11735500 Endoscopy .. 1.5 1.5 232 11735600 Suture 11735800 Delivery methods for childbirth 233 1.5 11736000 Anesthesiology 234 1.5 235 11737000 First aid and care 2.5 3.5 236 7.0 237 11737100 Bandages, dressings, tourniquets, 238,239 240 1.5 splints 2.5 241 3.5 242 11737200 Hemorrhage, bleeding; their 1.5 243 244 3.5 245 arrest

Table 3 (continued)	· · ·	. 4		· ·	_ `			agé 6	
Abbreviated Name of	Scale	Job Pt.	Levels	Răd	Admin.	Currie Pt.	ulum Obje Qual	.F	Adm.
Skill or Knowledge Category	}	Care		Tech		Care.	Assur.	1ech.	(A')
11737300 Handling, transportation of sick, wounded	1.5 2.5 3.5 5.5	1, 2 1, 2 2	•	3 · 3 · · 3	*	246 247 248 250 251 253		249 252 254	•
11737400 Sprains, strains, fractures; their healing	1.5 2.5 3.5	2	,	.3		257	•	255 256	**
11737600 Resuscitation	7.0	2				258	• 3	•	. •
11737700 Wounds and their healing	&1.5 2.5 3.5 5.5	2 2 2 2 2		3 .		259 261 263 264	•,	260 '262	`v 3
11738000 Asepsis	1.5 2.5 3.5	1, 2, 1, 2, 1, 2		3		265 266 268 269 272 273	267 270	271 274.*	
12210000 Radiobiology	1.5 2.5 3.5	18, 2	2	3 3	**	275 276 278	277 27 9 281	280 282	
12223000 Diagnostic radiography	2.5 2.5 3.5 5.5 7.0	1,, 2	1, 2 1, 2 2 2	3., 3., 3	•	285 286	283 284 287 288 290 292	289 291 293 294:	•
12300000 Pharmacology	1.5	Ž.	1 .		-	295	296		
,12331000 Drug oxicity, antidotal	1.5	2	•	3	, • •	298	•	297	

 \mathcal{E}

Table, 3 (continued)	,		. · •	ا، شو	`	•	P	age 7 of 8
	1	Job	Levels	by Fact	or .	Curricu	lum Obje	ctive Nos.
Abbreviated Name of	Scale	Pt.	Qual.	Rad'. A	dmin.	Pt.	Qual.	Rad. Adm.
Skill or Knowledge Category	Value	Care	Assur	Tech.	(A)	Care		Tech (A)
								**
12332000 Drug idiosyncrasy, allergy	1.5		• -	. 3*		· · ·		299
pharmacogenetics .	2.5	2		0		300	-	
12334000 Drug tolerance, physical	+ =				~	,		<u>.</u>
dependence	2.5	2	•		•	301	£	,
- dependence			•			701		
12335000 Drug synergism	2.5	2		•	, :	30Ž	•	
12333000 Didg Synergism	12.5	-	-			302		
12336000 Chemical teratogenesis	2.5	, ,)	ć 6	' •	303	•	•
12330000 Chemitcal teracogenesis	2.5	1	1	-		202	-,	
12341100 Antibacterial, antifungal	2.5	2		,		304	,	•
chemotherapy	3.5	2		1		305		••
Chemotherapy B	1 3.5	12		. —	<u> </u>	303	. ,	
12341300 Cancer and virus chemotherapy	2.5		,			206	,	
12341300 Cancer and VIrus Chemotherapy	1	2		79		306		· ·
	3.5	-			_	307	<u> </u>	*
12342100 Drugs acting on cardiovascular	1.5	2.	•			200	•	•
	L	2			-	308		
system, smooth muscle	2.5	2 2				309		
, , , , , , , , , , , , , , , , , , , ,	3.5	2				310	·	
122/2000	2.5				and the state of the state of	. a . #		•
12342200 Drugs acking on the blood		2 ;	₩ .		•	311	~ 1	, ,
5100 (0000)	3.5	2				312	<u> </u>	·
12342300 Hormones, drugs acting on	*				•		1	🥕 🦒 - 👍
endocrine glands, accessory	2.5	2	. •~	• , •	,	313 .	,	
reproductive organs	3.5_	2 .	7 ,			314	· · · · · · · · · · · · · · · · · · ·	
	-	•		•	,		•	
12342600 Drugs for allergy, cough,	2.5	2	٠			315	•	
vómiting	3.5	`2				316		,
1	1						.	
1234270 Drugs acting on gastrointestinal	2.5	2		•	•	317	•	
vtract	3.5	2	4			318		
		, 1,	• • •	. •		,	,	. 4
12342810 Drugs acting on autonomic	2.5	2, *		K.	:	319	•	
nervous system	3.5	ź .·	4°3 *-			320.		• 1
	-		- '	_		- l	₹.	, .]

1. 12.

Page 8 of 8

Table 5 (continued)					
	1		b Levels by Factor	Curriculum Obj	
Abbreviated Mame of	Scale		Qual Rad. Admin.	Pt. • Qual.	Rad. Adm.
Skill or Knowledge Category	Value	Care	Assur. Tech. (A)	Care Assur	Tech (A)
			- • • • • • • • • • • • • • • • • • • •		
12342820 Drugs acting on neuromuscular	2.5	'2	•	321	•
• • •	3.5	2.	e e	321	₹.
	3.7	2.	•	322	
100			\$3 . O	•.	222
12342830 Drugs acting on central nervous	1.5				323 "
'system'	2.5	2		324	
., ,	8.45	`2 ~	<u> </u>	325	
		• .	•	,	• .
12342900 Drugs acting on immunologic system	2.5	2	_	326	/
	3.5	2		327	•
	1	+	· - · · · · · · · · · · · · · · · · · ·		, -
15212100 Electric circuit theory	1.5		2	328	•
13212100 Electric cricuit theory.	1 1.7	+	* ** ** ** ** ** ** ** ** ** ** ** ** *		
1'5222500 1"-6	1		2	329 "330.	331
15222500 Interaction with radiation	1.5	2	2 3	329 330.	221
24110000 Electromagnetic field theory	1	1	•	7 , 1	• • • •
applications	1.5	1		. 332	
		1 15		1	
24132100 Electronic devices	1.5		2	333	
	1				T
33000000 Computer sechnology	1.5		1, 2 3	334 335	336
41666700 Death and dying behavioral.		<u> </u>			
development	1.5	-	3		337
ac to zopacite	T	† 			
51200000 Algebra	1.5	_	2 ' 3	338 -	339
1 21500000 urgenta,	+ +	 		#	J. J. J. 14
F2220000 75	1 =	!	2	340	. *
52220000 Descriptive statistics	1.5	 	2	340	
		\		341	
65260000 Photography, cinematography	1.5	<u> </u>	2	341	
65620000 Mechanics of writing English	1.5	2	2	342 - 343	
	. 2.5	1 ,	3		344.
· ·	3.5		2'	345	
Procedural Objectives (task sequences)	1 -	1. 2	1, 2 3 3	346 347 348 349	350, 351
The table of the second of the	'	<u> </u>	1 1 1 1 1 1 1		Tob No 2

Note: Tables 5 and 6 include the task code numbers for each curriculum objective. Appendix B and Table 2 present the full names of the knowledge categories. Appendix C contains the scales. The curriculum objectives are presented in numerical order in Chapter 8 of Volume 2 of this report.

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Table 3 (continued)

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Table 4. CURRICULUM OUTLINE ASSUMING THAT RADIOLOGIC TECHNOLOGIST OCCUPATION IS REACHED IN THREE STAGES
AND COMBINES THE QUALITY ASSURANCE AND RADIOLOGIC TECHNOLOGY FACTORS Page 1 of 29

, AND COMBINES THE	QUALITI ASSURANCE	AND RADIOLOGIC TECHNOLOGI, FACTORS	rage 1 or 2
	!		lan; Level 3: Technologist
Skill or Knowledge Category	Scale		cic. Curric.
(abbreviated)	Value		Nos. Task Codes Ob.Nos.
	Factors:	Quality Assurance (VI)	Rad. Technology (III)
Object Manipulation Skills	. 1.5		3 5 5 3 56 357 5
,		167 192 260	. 358 35 9 36 0
•		267 273 304 531 532 534	′ 361 362 363 ~
	_	535 536 537	364 366 367
•		538 539 545	368 370 371
	•	548 550	372 373 374
	·) -	, , , , , , , , , , , , , , , , , , , ,	. 378 379 381
1	1		382 383 384
	• -		. 385 386 387
			389 463 464
			. 465 466 467
V			1 468 512 515
			517
•	3.5	72 95 180 - 8 173 175 187 9	365 375 376 10
•	•	269 275 284 276 543 544	. 377 380 388
		:551 552,	. 39 0 491 492
•	•		493 494 495
for the same of th	· ·	The state of the s	496 497 498
, \	•		499 500 501
· · ·	and the second	,	502 503 504
	• • •		1.505 506 507
!	,		508 509 510
			511 513 514
	. • •		516 518 519
			526
* • • • • • • • • • • • • • • • • • • •	5.0	69 . 12	J20,
	J	U9 € 14	
<u> </u>		<u> </u>	

Note: Curric. Ob. Nos. = curriculum objective numbers. These appear in numerical order in Chapter 8 of Volume 2.

Abbreviated task names are presented in Appendices A and E.

Table 4 (continued)		L	evel	1: A	lide	Leve	1 2: T	echni	cian	Level	3: Tec	hnolog	gist
Skill or Knowledge Category	Scale				Curric		•		rric.			Curr	ic.
(abbreviated)	Value	Task	Code	es C	b.Nos	s. Tas	k Code	s Ob	.Nos.	Task	Codes	Ob No	os.
Factor		•			ality	Assura	nce (V			Rad.	Ţechno	log y (III)
Guiding or Steefing Skills		136	288			- 524			16		356 357		7
		:	,			!	/ * .				3 5 9 .360		
		;	٠						•		362 363		1
• • • • • • • • • • • • • • • • • • • •	1										365 366		•
	1	•									368 369		
	1				• •					•	371 372		!
	- 1	•		•			, `				374 375		-
				•	~		• '		•	3	377 378		•
				-	•		•				380 381		
7		,			•				•	1	383 384		!
,		j.	•								386 387		1
		ī			•				``		389 390		-
/	1	1.			4	-	-			ł	465 466		^
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		7 .						į.			493 494		1
	ļ (•		,	7	,		ľ			496· 499		,
, .	1			, '		*-	•	•		1	501 502		
• # 5 •	i.	•				-					504 505		
	1	•									507 508		
	. •	_				. '	-				510 511		
, , ,	-	•	•			ļ			-		513 514		. :
. 3.	1	1							• •	1	516 517		'
ap a respect of the Co.	- 1	-, _						- 1			519 526		
Human Interaction Skills	1.0	8	69	70	22		173.1		23	372	373 464	24	
, ,	1	71		79	•		27,6 5						. !
,		80	95				525 5			į			
↑ · · · · · · · · · · · · · · · · · · ·			136				.536 5						
	1		164		•	553	554 5	56			_	•	
		•	227			•	•			~		-	
			269)		•			•				•	,
	į		284		•	;			4				
	. .		288			, ,	7	-	, ·		•		
	1-		304	354	•		4		-		-		•
(continued on next page)	<u> </u>	552			-	—			,	1 -			

				,						
Table 4 (continued)	·	,a								e 3 of 3
					Aide				3: Tecl	nnologi
Skill or Knowledge Categ	ory	Scale	- 4		Curric.		Curric.			Curric
(abbreviated)			Task		Ob.Nos.					Ob.Nos
	Factors		, , , , , , , , , , , , , , , , , , , 	Qı		Assurance (VI)				logy(II
Human Interaction Skills	(continued)	3.0	145 1	47 192	28	175 280 529			30 · 353	30
		1	1		: '	530 531 532		369 3	70 371	
•	••	!	,	•	•	:533 ⁻⁵ 35 537		,		
	•	,			•	, 539 540 543				
		•	,	•		544 545 548	•			e de care
•			<u> </u>			549 550		.		
		5.0						355 35		34
•	_		•		~	•			9 360	
,		•			· .		• /		2 363	
• •	•	_					-	¹ 36 4 36	5 366	,
,	*					c	•	367 36	8 374	,
1	•		•		•		•		6 377	
	•						•		79 380	
•		,		•					32 383	. '
, <u> </u>	İ		,		•	•			35 386	,,
•						,	-	387 38		
•							, i	390 46		
· ~				,		畫 、	•	466 46		
,					` <i>,</i>	•	•	491, 49		•
• •	, , , , ,		- ^			,		494 49		•
•			~, e,				•	497 49		•
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,	٠ بسور	120	.a.	•	. a	,	•	515 51		7
		5.4	<u>e. </u>			<u> </u>		518 51	9 526	
_eadership Skill			354	:	38			•		
		18 11 J.	•	, .		•		. 100		

8-1,3

Table 4	(continued)	,			•	`•				• Pag	e 4 of 2
1	,		L	evel 1:	Aide	Level	2: Tec	hnician	Level	3: Teç	hnologis
Skill or K	Knowledge Category [.]	• ',Sca	le ,		Curn	• 1	.	Curric.			Eurric:
(abbreviat		. Val	ue Task	Codes	Ob. Nos	. Task	Codes	Ob.Nos.	Task	Codes	Ob.Nos.
		Factors:			uality A	Assurar	ce (VI)		Rad.	Téchno	logy(III
Oral Use o	of a Relevant Language	2.	0 8	69 70	44		173 178				~
•	- •	~	† 71	79 80			276 523		<u> </u>		1.
1	<i>l</i> •	• •		134 135			525 534				
,	,			137 145			538 553	}	1 .		•
				164 184		554	·556	-	i - , ,	^	. ·•
	5	:		260 273			•	•	i	· ~-	`
	•			284 285		:		-	1.	•	-
	•	_		288 297			4		1		,
	•			304 354		1 1.	. ,		_	-	
		•	552				•		1 :	, ``	
	٠	4.	0 147	192	• 49		280 527			280 353	
		. ' .	,	•			530 531			370-371	
			1 .	٠.	•		533 535			373 491	
	-						539 540			493 494	
	,	ļ 1		*.			544 545			497. 498	
	•	-	,	ь 🕨	` `	, 548	.549 550)		505 507	
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•						•	<u> </u>			519.	
	•	7.	5 , 1	*	• , • .	-		· .		356 3 <u>5</u> 7	
		1	• ' '		`					359 360	
Ì	_	•		- v r	•			,		362 363	
			-			,	3	- *		365 366	
	•		,		•	. 1	•	,		368 374	
,	,		١.							376 377	
	• 7			•	·	7		•		379 380	
					. <i>D</i>) i '		• •		382 383	
				١		. 1	•	**		385 386	
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Table 4 (continued)	•	*:		Page 5 of
Table 4 (conclined)		I aval 1: Aida	Level 2: Technician	
Skill or Knowledge Category	Scale			
(abbreviated)		Task Codes Ob.Nos.		Task Codes Ob No
Factors		Quality As	surance (VI)	Rad. Technology(I
Reading Use of a Relevant Language	2.0	69 71 72 56	78 175 178 57	353 370 371 58
wedering one of a west-valle, name-tage	;	79 80 95	187 534	372 373
• •	[3	134 135 136		
		137 147 163	· '	
	,	164 180 192		•
	,	222 227 260	•	
	-	264 267 269	•	
· · · · · · · · · · · · · · · · · · ·		274 275 284	•	
٠ ٠ ٠	1	285 286 288.		•
	ŀ	300-304 354	• • • • • • • • • • • • • • • • • • • •	, , , , , , , , , , , , , , , , , , ,
	5.0	8 70 273 61	276 280 523 62	81 280 355 63
	,	1	524 525 527	'356 357 358
			529 530 531	359 360 361
			532 533 535	362 363 364
	, ,		537 538 539	365 366 367
	1		540 543 544	368 369 374
			545 548 549	375*376 `377
•			`550 <i>5</i> 6 3 554 〈	378 379 380
		· · ·	556	381 382 383
	*		t	- 384 385 386
	i	_		387 388 389
	1			390 463 464
		•		465 466 467 · T
			• • • • • • • • • • • • • • • • • • • •	468 491 492 ¥
				493 494 495
				496 497 498
•	•		• •	499 500 501
*	1 '		_	502 503 504
	4	1	1.	565 506 507
	* *		•	508 509 510
	•		•	511 512 513
) -			•	514 51 5 516 '
*		• 1	,	517 518 519 •
•	•	i	•	`526 ∗

Table 4 (continued)	•	-			•		•		<u> </u>			6 of 29
	1	Le	vel 1:	Aide	Leve:	1 2:	Tec	hnician	Level	3: 7	Cechn	ologis
Skill or Knewledge Category	Scale			Curric.			_	Cufric.				urric.
(abbreviated)	Value	Task	Codes	Ób.Nos.	Tasl	k Co	les	Ob.Nos.				b.Nos.
Factors		<u> </u>	Q	uality A	ssura	nce	(VI)		Rad.			gy(III
Written Use' of a Relevant Language	2.0	134		66		175				353		68
	ļ			,		276				357 🐔		
	•					530				360.3		(* -
		İ			532	533	534			363, 3		
. /	1			•	535	536	537			366		,
			f	•		539				370		
		1 /	·		543	,544	545	•		373		
	1 /	1			548	549	556	ı		376		•
,		1			1					379		
· '	1	İ	7					•		382 ∶		
•		1					· ,			385		•
			·	,	į					388		
1 1				¥	i			,		463		
	1	ľ						·		466		
		1			1			.•		491		
						-		- `		494		,
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able 4 (continued)	•					, 🐧			<u> </u>		e 7 of
		1	i_Lo	evel 1:	Aide	"Level	2: Tec	hnician	Level	3: Tec	
kill or Knowledge Ca	tegory '	Scale	,		Curric.			Curric.			Curri
abbreviated) 🧠		Value	Task	Codes	Ob.Nos.	Task	Çodes	Ob.Nos.		Codes	
	I	Pactors:		Q.	uality A	ssuran	ce (VI)			Techno	
ecision Making on Me	thods.	1.5	8	69, 70	7.3	523	· _	74	353 3	70 371	.75
		•	72	79 134		•	,	, , ,	L372 3	373	
• ,,	•	•	145	163 164		' '					
			167	192 223		: •			ļ		
•	•		1267	297 552		: • •		• (<u> </u>	
,	, .	3.0	71	80 95	. 79	78	173 175	80	81	374 375	81
			135	136 147		178	187 524		376	377 378	*
. 🕶			184	227 273		527	533 536	-	379 3	380 381	
ឹង	. '	- •	274	275 284		538	553 554		382 3	383 384	
],	300	304 354				•	385 3	386 387	
		7	ļ	•		1	•	•	388 3	389 390	
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•		. 4.7					531 532			359 360	/
	•						535 537			362 363	
•	•						540 \$ 543			365 366	
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Table 4	(continue									ge 8 of 29
		,	•	1	Level	1: Aide	Level 2: Te	chnician	Level 3: Tec	
Skill or K	Cnowledge	Category	•	Scale		Curric.	•	Gurric.		"Curric'
(abbreviat			,			es Ob.Nos.	1	0b.Nos.	.Task Codes	Ob. Nos.
4			Factors		- ,		ssurance (VI		Rad. Techno	logy(III
Decision M	aking on	Quality			275 297	91			464	92
		•	•	3.5	8 70	71 95	78 173 17	75 96	280 369	97
`	•	i	,	1.	72 80	95	178 187 27			>
	·••	,•			134 135	147	280 523 52	24		
•			_		167, 192	223	534.536 53	38	74	
	•	~		1	227 260	269 .	.554	•	1	
٠.65	-	•		. -	273 284	286	4		,	•
•		•	<i>3</i> *		304 319	354 [′]	,	•		•
	• .		-		€ 51 552		4			<u> </u>
•			•	5.5				_	355 356 357	
•	•	,						· · · ·	358 359 360	
			i					.)	361 362 363	
•			, •					•	364 365 366	
	`	•	**			s •			, 367 368 370	•
			• -						371 372 373	-
	•	٠,	•_			•	•		374 375 376	.*
	-	. •		,	•			. /	377 378 379	
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			• •						493 494 495	
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Table 4 (continued)		•			·		Page 9 of 2
	*	Level l	: Aide	Level'2: Tec	hnician	Level 3	: Technologi
Skill or Knowledge Category	Scale		Curric.		Curric.		Curric
(abbreviated)				Task Codes	Ob . Nos .	Task C	odes Ob Nos
Factor				ssurance (VI)			echnology(II
Decision Making on Quality (continued)	1-7.0			525 527 529	103	81 35	3 104
	, 5	`		590 531 532			*
,			•	533 535 537	•	•	
				539, 540, 543	,		
				.544 545 54	,	}	1
				549 550 55		1 .	
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Symbolic Skills	1.5	134 147	113	173 175 525	114	355 35	6 357 115
•				529 530 531		358 35	
, *	-			532, 535, 536		361 36	2 363 🕶
	!		•	537.538 539)	364 36	5 366
	ļ.			543 544 348		367 36	
			•	549 550 553	ľ,	371 37	
				556 .	. /	374 37	
•	1	-	•	·	•	377 37	8 379
		1.				380 38	1 382
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	`	,		√		386 38	7 388
				1.		389 39	0 463
•		<u>'</u>				464.46	5 466
;		1				467 46	8 491
, .	į		•		•	492 49	3 494
	-				•	495 49	6 497
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Fable 4 (continued)	· · · · · ·	• •	4	 _		Page	10 of 29
		Level 1:	Alde			Level 3: Tech	inologist,
Skill or Knowledge Category 7	Scale	,	Curric.	•	Curric.		Curric.
(abbreviated)		Task Codes	Ob.Nos.	Task Code	s Ob.Nos.	Task Codes	
Facto				ssurance (V		Rad. Technol	
Implicative Skills	1.0	8 70 275	121	173 175 1		370 371 372	,123
		354	1 -	523 527 5	29 ±	373	
				530 531 5			
•	1			533 535 5			-
			•	'538 539 5			, ,
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	, •		Y		,	367 368 369	-
3						374 375 376	
	Ì	-	·.			377 378 379	· _
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				1		510 511 512	
	•	3	<i>s</i> *		`	513 514 515	•1
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Table 4 (continued)		,	· ·	•				11 of 29
		1	Level 1	Aide'	Level 2: Tec		Level 3: Tech	nologist
Skill or Knowledge Category		Scale	î	Curric.		Curric.	. , .	Curric,
. (abbreviated)	,	Value 1	ask Codes	Ob.Nos.	Task Codes	Ob.Nos.	Task Codes	
	Factors	:	1,0	uality A	ssurance (VI)		Rad. Techno	
Financial Consequences of Error	•	1.0	8 69 70	131 😯	78 173 280		280 353 355	
	•		71 72 79		523 524 525		35.6 357 35.8	
	٠.		80 \ 95-13	4 .	527 529 530	•	359 360 361	
		- 1	L35 136 <u>13</u>		531 532.533		362 363 364	
		. 1	145 36		534 536 537		365 366 367	1
	•	1 - 1	167 100 15	•	538 539 540		. 368, 369 374	· / `
Y			222 227 260		543 544 545		37,5 376 377	1 1/4 1
	•	- 1	267 269 27		548 549 550		378 379 380	
			274 275 28		553 554 556	K.,	.381.382".383	
			285 28 6 28	8. * .	, ,		384 385 386	1
		1 .]2	2,97,304 31	9		•	387 388 389	. /
	•	1	354 551 55	2 🚶 🖊	,		390 463 464	, '
		· . '	, •	55	***		465 466 467	•
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n e				•	•	4	496 497 498	•
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Table 4 (continued) % *			\ .		•		e 12 of 29
Table 4 (concluded)		Level 1:	Aide	Level 2: Te	chnician	Level 3: Te	chnologist
Skill or Knowledge Category	Scale		Curric.		Curric.		Curric.
(abbreviated)	Value	Task Codes	Ob.Nos.	Task Codes	Ob.Nos.	Task Codes	Ob.Nos.
	Factors:	. Q	uality A	ssurance (VI	.)	Rad. Techn	
Consequences of Error To Humans	1.0			78 173 17	'5 141 ·	353	14.2
	•	134 135 136		187			_
•		145 147 163			•	7	
	- !	164 167 184		. '		1.	- ,
		222 223 227	,	*			*
	, i	260 264 267			. •	, ,	·
	´ .┝⁻	269 274 275					
	•	284, 285 286		•			•
•		288 297 300	l			-	
	· ' <u> </u>	354 .	•		<u>. </u>	111111	1 7/7
	2.0	137 180 319			<u>'</u>	466 468	147
ļ. , , , , , , , , , , , , , , , , , , ,	3.0	70 · 79	150 `	276 527 52		369 467	. <u>1</u> 52
	·	· ·		530 534 54		01 000 05	:
	5.5	69 71 80	-155	-178 280 52		81 280 35	
		192 273 304		524 525 53		356 \$57 35	
•	, ,	551 552	•	532 533 53		359 362 36	
	•	_	•	537 538 53		371 377 37	
				544 553 55	54	379 381 38	
	- .			556		384 385 38	
		40.		<u> </u>		514 516 52	
,	. 7.0			535 540 54		360 361 36	
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			24	•	4	373 374 37	
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•		* ,			•	465 491 49	
		1		1.:	*	493 494 49	
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	:					511 512 51	1.5
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Table 4 (continued)		<u> </u>	*		Page .	13 of 29
•	,	Level 1:	Aide Level 2: Tec	hnician I	Level 3: Tech	nologist
Skill or Knowledge Category	. Scale	,	Curric.	Curric.		Curric.
(abbreviated)	Value	Task Codes	Ob.Nos. Task Codes	Ob.Nos.	Task Codes	Ob.Nos.
	Factors:	, 0	uality Assurance (VI)		Rad. Techno	logy(III)
11735400 Introductory proc	edures 1.5	260 304	226	· #	353 377 378	227
	•		,		380`'382 383	_
•	· •	,	•		385 386 387	•
• '			1 7		388 389 390	~]
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	•		• '		500 501 502	ŧ.
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				' '	518 519 526	
-	2.5				465	229
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Table 4. (continued)	
Skill or Knowledge Category (abbreviated)	

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Factors:

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_		evel	1:		Level	2: Te	chnician	Level	3: T				1
Scale		`		Curric.		• .	Curric.	l` •.				ic	
Value	Task	Cod		Ob.Nos.					Code				
			Q	uality As	ssuran	ce (V.	<u>() · </u>	Rad.	Tech	nol	ogy (111)	١
1.5			304		<u> </u>					- -			-
2.5	79	80		270.			*•	1	356 3		271	٠,	
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3.5			_	,					370 3		274,		ł
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	' '				j	•	• •	.376	377 3	78		,	ı
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			•	,	·			386	387-3	88	1		ļ
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			٠,		,		, • '	464	465'4	66	-		
	1	•	'			,	•	467	468 4	91			1
					' /			492	493 4	94	• 5		
				^		٠,		495	496 4	97	· ′	•	
			-	, ₆₂	i		₹'	498	499 5	00	•		١٠
			•	,~				501	502 5	03	•		L
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able 4 (continued)	•		,							*		Page	15 o	f
	1		evel 1:	Aide	Level	`2:	Tec	hnicia	an	Leve				
kill or Knowledge Category	Scale			Curric.	*		*	Curr	ic.				Curr	i
abbreviated)		Task	Codes	Ob.Nos.	Task	c Cog	le's_	Ob.No	os.				Ob.No	
Factors				uality A						Rad	. Te	chno.	logy(I
2223000 · Diagnostic radiography	1.5		275	283	,523			. 284					•	_
•	2.5	147		287		178		288	.,	⁻ 369	,		289	Ž
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<u>.</u>	3.5			•				, 2 9 0		372	373	464	- 291	
		à			530							•	• .	
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	5.5	•			545	•	.=	292				357	293	
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	Table 4 (Continued).									
T.			Level	1: Aide	Leve	<u> 2: Tec</u>			3: Tec	hnologist
ſ	Skill or Knowledge Category	Scale		Curric		٠,	Curric.			Curric.
١	(abbreviated)	Value	Task Code	es Ob.Nos	. Tasl	k Codes.	Ob.Nos.			Ob.Nos.
t	Factors			Quality				Rad.	Techno	logy(III)
t	12300000 Pharmacology	1.5	260 304	296	1 .			<u> </u>		
ł	33000000 Computer technology	1.5	8	334	523	525 527	335	526		336
ŀ	Procedural Objective (task sequences	-	8 69	70 348		•			•	}
	and equipment not elsewhere covered)	' '	72	79	1					
Ì		Į.	80 95	134			4			1
١		,	135 1.6	137	Ì	1				
1		1	145 14'	163	-			1		
Ì			164 167	180 .	- 1	•	•	1	,	-
1		1.	184 192	222	- }	•				
		,	223 227	260				1	* *	,
1	· ·		264 267	269				1		1 4
١			273 274		- 1				• ′	4
1			284 285	286		•			•	, 1
1			288 297	300	/ .		ŧ	1		-
			304 319	354		•		1.		•
1		,	551 552							
1		1	Level 1	Quality .		. •	•	`4	,	•
		^		e curric-	,	•	•		-	
1			ulum end		· .			1		•
	•	1 '		•	1		♥ ,		•	

Table 4 (continued)		_ •			•	Page 17 of
		Level 1: Aide	Level 2: Tech		Level 3:	Technologist
Skill or Knowledge Category	Scale		•	Curric.		Curric
(abbreviated)	Value	Not Required	Task Codes ·	Ob.Nos.	Task Codes	Ob.Nos
Factors		5	Quality Assura			hnology (III)
Figural Skills	1.0	4	78 175 524 527	108	372	109
		•	529 530 531 532		,	,
			533,534 535 536	1	•	,
•			538 539 540 544	ļ		
	• •		548 549			
•	3.5	• .	525 537 545 550	110	355 3 56 357	
		•			359 360 361	
,	1	,	,		363 364 365	
•		_			367 368 370	
				, ,	373 375 3 7	
•	[378 379 38Ĭ	
	1	• • •		•	383 384 385	
	,		, ,		387 3 88 389	
	•				463 465 466	,467
					468 49 1 492	
		'	~		494 495 496	
		•		•	498 499 500	
	-				502 503 504	*505
		,	•		506 507 508	509
4		X	,		510 511 512	51.3
	İ				514 515 516	517
	-	A	1		518 519 <u>526</u>	
*	5.0.	,		,	81 374	112
· .	1		1	-	· · · · · · · · · · · · · · · · · · ·	

•	•	•			7	· •	
Table 4 (continued)	· _ •	<u>,</u>	· · ·			Page 18 of 29	
	1	Level 1: Aide			Level 3: Te	echnologist `	1
Skill or Knowledge Category	Scale			urric.	•	·Curric.	
(abbreviated)	Value	Not Required		b.Nos,	Task Codes	Ob Nos.	1
Factors			Quality Assurance			nology (III)	
Taxonomic Skills	2.0			117 .	81 353		
		•	• *		357 358 359		1
			, ·		361 362 363		1
	ì				365 366 367		
7. 4.	, '	_			369 370 371		-
	1		τ_{c}	,	.,373 374 375 377 377 378 379		١
	!			•	377 378 379		
		1.			385 386 387		
			. , .	1.	389 390 463		4
	• •				465 466 467		
	1			•	491 492 493		
	İ			1 -	495 496 497		
•					499 500 501		
	•	•			503 504 505		1
	į	•			5 07 508 509		1
	1				511 512 513		
	1	. , ,	· . ·		515 516 517		
	1			•	519 526	,	1
11731100 Regional anatomy	2.5	+	1	-	372 464	163	1
11751100 Regional anatomy	3.5	-	78 527	164	355 356 357		1
	1 7 7	İ	, , ,		359 360 361	362	1
	1		, ,		363 364 365	366 -' .	
	!	y .		_	367 368 370	371	
	' \	1		*	373 375 376		
;	,	'	· \.		378 379 380		
	. ,		* ,		382 383 384		
		.			386 387 388		1
	. •	•	• •	-1	390 4 6 3 465		1
	Agr.		•	,	467 468 491		1
	1	1			¥93 494 495 ·		
	i			•	497,498 499		
,	• •			₩.	501 502 503		
•	- 11	1	*		505 506 507		j.
			`		509.510.511		1
*	***			*	513.514 515)ΤĎ	
(continued on next page) .	1	(·	<u> </u>	7	517:518 519		_'
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	•	1	Level 1: Aide	Level 2: Technician	Level 3: Tech	nologist
Skill of F	Knowledge Category	Scale		Cúrric		Curric.
(abbreviat			Not Required	Task Codes Ob.Nos		Ob.Nos.
· .	Factors			Quality Assurance (VI		
11731100	Regional anatomy/	+ 5.5	1	'545 166	81 374 526	167
	(continued)	7.0	1	· ·	353	168
12210000	Radiobiology	1.5		173 175 178 187 277		•
,	•		• • •	523 524 525 536	, ,	
	F *	<u> </u>		538 553 554		.
•	* **	2.5		280 529 530 531 279	280 369	. 280
	•	[532 533 534 535		, e
•				537 539 540 543		
	•		•	544 548 549 550• 556	• • • • • • • • • • • • • • • • • • • •	.,,
		3.5		545.	81 353 355 356	5 282
	•	. 3.)		545.	357 358 359 360	
	-		,		361 362 363 364	
,		•			365 366 367 368	
	• `,			,	370 371 372 373	,
			1	,	374 375 376 377	
• *	•				378 379 380 381	
	,	1	,	*	382 383 384 385	ົ້
	•		k.		386 387 388 📆 9) '
		Ì	•		390 463 464 465	;
' ` ` `	,	h	•		466 467 468 491	<u>.</u> .
-	•			,	492 493 494 495	,
		` .			496 497 498 499) _
. ',	•		\sim	• . •	500 501 502 503	
*	• •	1'.	•	. "	504 505 506 507	
•	*		,		508 509 510 511	-
••		٠ .			512 513 514 515	
•	•		3 .		516 517 518 519	,
	•	1		1	526	٠.

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Table 4 (continued)				Page 20 of 29
1,000	1	Level 1: Aide	Level 2: Technician	Level 3: Technologist
Skill or Knowledge Category	Scale		Curric;	Curric.
(abbreviated)		Not Required	Task Codes Ob Nos.	Task Codes Ob.Nos.
Factors	_		Quality Assurance (VI)	Rad. Technology (IN)
-15212100, -Electric circuit theory		,	532 535 536 543 328	
			556	
15222500 Interaction with	1.5		173 175 178 187 330	280 353 355 356 331
radiation	,		280 529 530 531	357 358 359 360 ° ° ° °
. , ,	_	-	532 533 534 535	361 362 363 364
	1		537 538 539 540	365 366 367 368
	}		1 543 544 545 548	369 370 371 372
	Ì		549 .550 556	373 374 375 376
,				377 378 379 380
	•		"	381 382 383 384
		,•		385 386 387 388
. ¥	1 .		. ,	389 390 463 464
		•		465 466 467 468
• •	,	, , ,	,	.491 492 493 494
		-		495 496 497 498
· · · · · · · · · · · · · · · · · · ·		. •		499 500 501 502
•	, 1			503 504 505 506
	1		•	507 508 509-510
	ļ			511 512 513 - 514
	1		,*	515 516 517 518
	1	***	ľ.	519 526
24110000 Electromagnetic field	1.5	 	535 332	. >
theory applications	1.7		332	1.
	1.5	+	532 535 545 548 333	
24132100 Electronic devices	1		, 549 550 556 · · ·	
51200000 Alashua	1 5	+	173 - 529 - 530 - 531 - 338 -	355 356 357 358 339
51200000 Algebra	1.5	•	535	359 36 0 361 362
•			,	365 375 491 492 .
	1.			493 494 495 496
		1.	, ,	511 518
<u> </u>	1, -	· · · · · ·	535 538 543 544 340	TIT JIO
52220000 Descriptive statistics	1.5			
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		553	
65260000 Photography,	· .1.5		543 . 341 .	
cinematography	-	·		<u> </u>

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Table 4 (continued)		* *	<u> </u>	* ·					21 of 2
	,	Level 1	: Aide	Leve	el 2: Tec	hnician	Level 3	: Techr	ologist
Skill or Knowledge Category	Scale	:		, ,	•	Curric.		· ·	Curric.
(abbreviated)	Value	Not Req	uired	Task Co	odes	Ob Nos.	Task Čode	s ·	0b.Nos.
· Factors				Quali	ity Assur	ance (VI)	Rad. T	echnolo	gy (III)
65620000. Mechanics of writing	1.5	1			5 178 187		-		
English		į ·		525 529	530 531	~	•'		
		1		f r.	3 534 535				٠,
•	1 .	· .		536 537	7-538 539				
•		1 •	4.2		3 544 545		})
•	1	,	•	į.	₹.√550 5€6				
	2.5	+	· · ·		7		81 353 3	55 356	344
• •					• .		357 358 3		•
*		1		,			361 362 3		
4		1	#		4	,	365 366 3		
		•	•	_	•		370 371 3	•	
		•	• *		•	•	374 375 3		
•		1		•	-	· · ·	378 379 3		
		•	*		,		382 383 3		
	Ī				\	•	386 387 3		
	1.		•				390 463 4	-	
•		, L		•		•	466 467 4		•
• •		*					492 493 4		*, *,
• •	,			, ,					d
		,		_		·	496, 497 4		2 6 10
•		•				•	500 501 5		
•						• .	504 505 5		
• • • • • • • • • • • • • • • • • • • •			•			1	508 509 5		
	į					^	512 513 5		
	+ ,	` '		-	-		516 517 5	18 213	
	10-5		 -		·	- 	526	<u>·</u>	
	3.5	+		554		345			
Procedural Objective (task	-	-			3 175 178	349	• ,	:	
sequences and equipment					5 280- 523	ì	. 1	*	/
not elsewhere covered)	,				5 527 529				
•					L 532 533	4			
				-	5 5 3 6 5 3 7				
	,	34.4			540 543	. 4	•	-	•
•	•	-	`		5 548 549		ł		
	1				<u>3 554 556</u>				
	1	ŧ .	••			Assurance	` •		, ,
- 4				curricu	ılùm ends	here.		ī	
		1				<u>. · </u>	L		

Page	22	οf	29
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able 4 (confinued)			22 of 29
	Level 1: Aide Level 2: Tecn.	Level 3: Technologist	
kill or Knowledge Category	Scale		rric.
abbreviated)	Value Not Required Not Required		Nos.
Factor		· Radiologic Technology	(III) <u> </u>
1731000 Normal structure and	2.5	. 353 362 363 368 371 376	162
function		378 381 382 383 384 385	
Y		386 387 388 389 390 463	
		465 496 500 501 502 503	
		511 512 513 515 516 518'	
•		519	
1731200 Topographic anatomy	1.5	373	171
	3.5	355 356 357 358 359 360	174
	3 3 4	361 362 363 364 365 366	
•	•	367 368 370 371 375 376	
_	,	377 378 379 380 381 382	
•		383 384 385 386 387 388	
		389 390 463 4 6 5 466 467	
		468 491 492 493 494 495	
		496 497 498 499 500 501	
•		502 503 504 505 506 507	
,		508 509 510 511 512 513	
•		514 515 516 517 518 519,	
	5.5	374 526	175
· **	7.0	353	176
11731300 Hematopoietic system	1.5	516	177
11731400 Circulatory system (cardio		362 376 494 502 504 509	180
vascular, lymphatic)	, ,	510 511 512 513 514 515	
vascular, lymphacic,		- 516 517 518 519 526	· ·
11731500 Respiratory system	1.5	362 364 374 378 379 380	182
11/31300 Respiratory system		494 497 498 526	
11731600 Digestive system	1.5	363 374 495 526	184
11731610 Mouth, pharynx, esophagus		364 374 375 381 494 499	185
11731620 Stomach, small intestine	1.5	381 382 499 501	186′
11731630 Large intestine, rectum-	1.5	383 500 501	187
11731640 Liver, biliary system,	r.5	371 384 385 386 387	188
pancreas	,		
11731700 Urinary system	1.5	363 387 388 389 390 463	189
	1 + · · · ·	1	
11/51/00 , offinally system		495 501 502 526	

^{*} It might be appropriate to go to 11731800, Musculoskeletal system, before presenting the other systems of the body which follow. See below 11731800 in its numerical position.

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<u>.</u>		•	`	-	
Table 4 (continued)	•	•			Page 23 of
	1	Level 1: Aide	Level 2: Tecn.	Level 3: Techn	ologist
Skill or Knowledge Category .	Scale			•	Curric.
(abbreviated)		Not Required	Not Required	Task Codes	Ob.Nos.
Factors			/ -	Radiologic Techn	ology (III)
11731800 Musculoskeletal system	2.5			· 355 356 357 358 359	360 . 192
		, A		361 362 3 364 365	366.
· ·	1		•	367 368 370 375 376	377 - •
•	`,		•	378 379 380 381 382	
	1		₹	387 388 389 390 463	
•				466 467 468 491 492	
9		,	•	494 495 496 497 498	
	1 .			500 501 502 503 504	
		•	•	506 507 508 509 510	
,	1			512 513 514 515 516	
	,			518 519	*_
	3.5	 		374 526	193
A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	5.5	†	• • • • • • • • • • • • • • • • • • • •	81 353	194
11731820 Bones and joints	2.5	 		363 364 367 375 376	
in 1731020 beares and joints			e j	379 380 381 382 383	
•	٠-			388 389 390 463 465	
	1		*	467 468 495 497 498	
,		_	`	500 501 502 503 504	
•		,	•	506 508 509 510 511	
,		1	·	513 514 515 516 517	
•			,	519	
	3.5	+,		355 356 357 358 359	360 196
, 	"."	'		361 362 365 366 370	
,	1			377 491 492 493 494	
•	1			507 526	
	7.0		4	353	197
11731910 Central nervous system	1.5	+		374 504 505 506 507	508 198
. Central nervous system	1.7.	1	·	509 526	•
11731943 Eye and optic nerve	1.5			367	199
11732222 Male reproductive system	1.5	-		374 503 526	200
11732223 Female reproductive system	1.5			374 465 466 467 468	3 503 201
11/3/2/20 Temate reproductive system	1	1 :	J	512 526	• •
,	1			4	ه.
<u>: :</u>	1			9	

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Table 4 (continued)	*		<u> </u>		•	Page 24 of
•	<u> </u>	Level 1: Aide	e Level 2: Tecn.	. Level 3	3: Techno	
Skill or Knowledge Category	Scale		,	1	•	Curric.
(abbreviated)	Value	Not Required	Not Required	Task Codes		Ob.Nos.
Factors						ology (III) `
11733200 Neoplasms	1.5	1		353 362 363		
(cancerous growths)	•	1	• "	374 375 376		
, , , , , , , , , , , , , , , , , , ,	}	1	· · · · · · · · · · · · · · · · · · ·	381 382 383		
*ip	1	1	٠.	387 388 389	390 463	465 ~ *
	1.	,	•	494 495 498	499 500	501
· · · · · · · · · · · · · · · · · · ·				502 504 505	506 508	509
	1			511 512 514	515 516	518
	1			526		i
11733400 Disorders of blood, blood-	1.5			516	•	203
forming organs	1.5	1	4			
11733510 Disorders of central	1.5	<u> </u>		504 505 506	507 508	509 204
nervous system	1					
11733600 Disorders of circulatory	1.5	- -	* * * * * * * * * * * * * * * * * * * *	353 355 356	357 358	359 207
system.	1.5			360 361 363		
, system ,	١,	* ,	•	367 368 369		
J.	'	- ,		378 379 380		
`	İ	,		384 385 386		
		, V	. 4	399 463 464		
,	-	•		468 491 492		
				497. 498 499		
		آب	· •	505 506 507		
	2.5		·	362 376 494		
-	1:3		• .	510 511 512		
'	• `	=	•	516 517 518		
11733700 Disorders of digestive	1.5			363:371 375		383 209
1	1.5			384 385 386		•
system	1.	•	,	500 501		•
·						
<u> </u>	1	•,		†		· · · · · · · · · · · · · · · · · · ·

		-				D 05 -6 00
-	Table 4 (continued)					Page 25 of 29
				Level 2: Tecn.	Level 3: Tech	
	Skill or Knowledge Category	Scale				Curric.
٠,	(abbreviated)		Not Required	Not Required	Task Codes	Ob. Nos.
"	Factors		· · · · · · · · · · · · · · · · · · ·		* Radiologic Tech	
	11733800 Disorders of respiratory	1.5		• .	353 355 356 357 35	
	system		•	•	360 361 363 364 36	
		1	<i>.</i> .	7. N	367 368 369 375 37	
-	,	1	, ,	,	381 382 383 384 38	
1				• 5	387 388 389 390 46	3 464
				· *	465 466 467 468 49	1492
٠	.	İ	1,	•	493 495 496 497 49	9, 500
4		•			501 502 500 504 50.	5-506
		•			507 908 509 510 51	
ĺ		· '	1	•	513 514 515 516 51	7 518
		1		E.	519 526 ***	•
		2.5	-		362 374 378 379 38	0 494 ,211 #
		1		•	498	•)
•	1733900 Disorders of uro-genital	1.5		•	363 387 388 389 39	0 463 212
`د	system		 '	•	465 466 495 501 50	
'	11734200 Disorders of musculo-	1.5			363 364 367 369 37	
٠	skeletal system			•	375 376 378 379 38	0 381
	Skeretar System		، ' ، خذا	,	382 383 384 385 38	
ı		' '			388 389 390 463 46	
		•		,	466 467 468 495 49	
		-	4		499 500 501 502 50	
			<u>.</u>	**	505 506 508 509 51	
•		1 .	+ ·	1	512 513 514 515 5	
8			1.**	· ,	518 519 526	
*		2.5			353 355 356 357 35	8 359 214
		1 2.3	T	. •	. 360 361 362 365 36	
٠.			•	•	377 491 492 493 49	
			j 👑 .		507.	1 170 h
\	11734300 Congenital abnormalities	1.5	-		380 496 497 499 50	0 501 215
	Congenital abnormalities	1.5		,	502 503	اد الحدد عالم ال
	11734400 Disorders, complications of	1 5	- *		466 467 468 512	216
•		. 1.3	•		1, 400 407 400 312	· · · · • • • • • • • • • • • • • • • •
	pregnancy, birth	1				` <u>,</u> ,
•				1		

Table 4 (continued)		 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 	,)		26 of
•	/	Level 1: Aide	Level 2: Tecr	1	Level_:	3: Techno		
	Scale			ļ.	*			Curric.
(abbreviated)	Value	Not Required	Not Required		k Códes			b.Nos.
Factors:					Radiologi	lc Techno	ology	
11734800 Shock and trauma	.1.5				463 464			218
	2.5	,		1	355 356			219
-					361 362			
, ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		'	• •		367 368			
· · · · · · · · · · · · · · · · · · ·	, ^	j	•		378 379			-
	'			383	384 385	386 387	388	
,		•	* * ·	389	390, 465	466 467	¹ 468	
1	ļ			491	492 493	494 495	496	
	١,	- ~ ·		497	498 499	500 501	502	
	-		•	503	504 505	506 507	508	•
•				1 ∕ 509	510 511	512 513	514	,
	ŀ.		,	515	516 517	518, 519	526	
11735000 Surgery ,	1.5	- .			373	١ .		221
11735100 Operative procedures	1.5		-	7 371	379 464			223
11739300 Repair surgery	1.5			370			•	224
11735500 Endoscopy	1.5		, '	379				231
11735800 Delivery methods (childbirth)	1.5				468		•	233
11736000 Anesthesiology	4.5			370	371 372,	373 463	498	, 234
		,	•	511	513, 514	516 518	519	
• •	1			526				
11737000 First aid and care	2.5	_	* 4	353	355 356	357 358	359	235
	1		₩	360	361 362	363 364	365 ·	
, ?e	"	•		366	367 368	374 466	468	
	3,5	- Pater	· · ·		510 511			236
		.		II	5 16 517			7
11737100 Bandages dressings,	1,-5	-	· · · · · ·		505 506		509	240
tourniquets, splints		" Me of My " .	•		511 512			
, couring queen, opening			f	518			,	*
11737300 Handling, transportation of	2.5	1	-	369				249
sick, wounded	3.5	1 =	, .		371 464			252
Sign, wounded					7 '-'	• •		
(continued on next page)	1	-	1		<i>5</i>		•	•

fable'4 (continued)	-				Page 27 of 29
* ,		Level 1: Aide	Level 2: Tecn.	Level 3: Techn	ològist
Skill or Knowledge Category	Scale	1 /			Curric.
(abbreviated)		Not Required	Not Required .	Task Codes	Ob.Nos.
Facto			<u> </u>	Radiologic Techn	
11737300 Handling, transportation			•	353 355 3 56 357 358	
sick, wounded (continue	d)		•	360 361 362 363,364	
		V		366 367 368 374 375	
· .		}	- '	377 378 379 380 381	
	•	,-		383 384 385 386 387	
·	1			389 390 463 465 466	,
'		1	, , ,	468 491 492 493 494	
-				496 497 498, 499 500	
•	,	, .	•	502 503 504 505 506	
·	• ,	``	٠ ,	508 509 510 511 512	
•		111	·	514 515 516 517, 518	519
17737400 Sprains, strains, fractur	1	 .		526	071 077
-,	es; 1.5	,	•	363 364 367 368 369	
their healing	·	• • • • • • • • • • • • • • • • • • • •		375 376 378 379 380	
		,	. 🛊 •	382 383 384 385 386	
	İ			388 389 390 463 464	
	,	,	,	466 467 468 495 497	
•			ر ا	499 500 501 502 503	
·				505 506 508 509 510 512 513 514 515 516	
	• 1	•	,	518 519 526	.517
	2.5			353 355 356; 357 358	359 256
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₩ đ		,		377 491 492 493 494	
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	Table 4 (continued)	G .				rage. 28 or 29
Ī	•	1		Level 2: Tecn.	Level 3: Techno	
إ	Skill or Knowledge Category	Scale			/-	Curric.
	(abbreviated)	Value	Not Required	Not Required	Task Codes	Ob.Nos.
l	<u> </u>				Radiologic Techno	
	11737700 Wounds and their healing	1.5			353 355 356 357 358	
ł			,	- '	360 361 362 363 364	
١	• • • • • • • • • • • • • • • • • • • •	1			366 367 368 369 374	
-	•				376 377 3 78 379 380	i i
	•		٠,		382 383 384 385 386	
	• •	}	}		388 389 390 463 464	
-					466 467 468 491 492	493
			1	•	494 495 496 497 498	499
-	•	1			500 501 502 504 505	•
	,		•	•	507 508 509 510 511	512
		1	,	4	513 514 515 516 517	518
				-	519 526	
		2.5			<u>* 503</u>	262
	12331000 Drug toxicity, antidotal	1.5	, /4	•	3 7 5 (37 6 377 378 380	384 297
-1	therapy		,		385 387 388 <u>389</u>	
	12332000 Drug idiosyncrasy, allergy	1.5	, ,	,-	375 376 377 378 380	384 299
İ	pharmacogenetics	1 ~			385 387 388 389	
	12342830 Drugs acting on central	1.5			353 355 356 357 358	359 323
Ì	nervous system	1		•	360 361 362 363 364	365 ,
		1	,	` .	366 374 375 376 3 77	378 (
	<u>*</u>	1	• .		379 380 386 388 389	390 . [
		`			465 467 491 492 493	494
	, <u>.</u>				495 496 499 500 501	
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7					515 516 517 518 519	5-26
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Page 29 of 29

	1	Toyol 1. Adda	Level 2: Tecn.	Level 3: Technologisa	+
Skill or Knowledge Category	Scale		Level 2. Tech.		urric.
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(abbreviated)		Inor Kedarrea	Not Required .		
Factors		:			(III)
41666700 Death and dying behavioral	1.5			353 362 363 364 365 366	337
development	1'	٠.		368 374 376 378 381 382	
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Procedural Objective (task sequences	,	•		81 280 353 355 356 357	350 \ *
and equipment not elsewhere covered)	1		358 359 360 361 362 363	<i>f</i>
	1 -			364 365 366 367 368 369	-3
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· ·		L	•	518 519 .526	
		 	- 4	Level 3 Radiologic Technol	logy
÷\				curriculum ends here.	~~BJ
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Note: The assignment of tasks to factors and levels is presented in Appendix E. The scales are presented in Appendix C. The full knowledge category names appear in Appendix B and Table 2.

Table 5. CURRICULUM OUTLINE ASSUMING THAT RADIOLOGIC TECHNOLOGIST OCCUPATION IS REACHED IN THREE STAGES
AND COMBINES THE PATIENT CARE AND RADIOLOGIC TECHNOLOGY FACTORS
Page 1 of 30

Skill or Knowledge Category (abbreviated) Scale Curric Task Codes Curric Curric Curric Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos.	AND COMBINES THE PA	TIENT CARE A	א עא	DIOLO	GIC _	TEC	INULUGI	PACIU	<u> </u>					1 01	
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Value Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos.	Skill or Knowledge Category	•	Scale				Curric.			Curric.			T	Curric	٠.
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Note: Curric. Ob Nos. = curriculum objective numbers. These appear in numerical order in Chapter 8 of Volume 2. Abbreviated task names are presented in Appendixes A and E.



Level 1: Aide Level 2: Technician Level 3: Technologist	Table 5 (continued)			*#					4 4		•			Page	°2 of 30
Skill of Knowledge Category Scale Curric. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task Codes Ob. Nos. Task		ī		L	evel	1: /	Aide	Level	2:	Tech	nician	Level	. 3:	Tech	nologist
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Factors		ŀ	Value	Task	Code	s l	Ob.Nos.	Task	c Cod	leş 🖞	Ob.Nos.	Task	Cod	les	Ob Nos.
Guiding or Steering Skills 1.5 287 302 14 287 302 14 355 356 357 17 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 385, 386 388, 389 390 463 465 466 467 468 491 492 493 494 495 496 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 549 526 1.0 166 190 199 20 278 279 281 291 3.0 74 98 113 26 18 33 133 27 18 1280 353 30 190 155 193 262 271 282 283 287 289 292 275 301 302					ŕ					_		Rad.	Téc	hnol	ogy(III)
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Human Interaction Skills 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 364 385 386 38 384 385 386 38 388 389 390 463 465 466 467 468 491 492 493 494 494 499 493 494 494 495 496 409 500 501 502 503 504 505 506 507 508 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526 Human Interaction Skills 1.0 166 190 199 20 65 21 372 373 464 24 24 278 279 281 291		. 1	`				İ				• •	361	362	363	` •
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	7.0	73 74		133 14		81 353	104
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Table 5 (continued)	•	•			<u>, </u>			ge 9 of 30
			Level	l: Aide	Level-2: T		Level 3: Te	
Skill or Knowledge Category		Soale		Curric		Curric.	•	Curric.
(abbreviated)			Task Cod	es Ob.Nos		s Ob.Nos.	Task Codes	
	Factors				'Care (IV)		Rad. Techno	
Figural Skills			262 271	106	308	107	372	109
*	•	3.5	7		,	•	355 356 35	
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		-					361 362 363	
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			1.				468 491 49	
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Table 5 (continued)				1	* *		* \$		• • •		ge 10 of 3
			Level	1:	Aide	Level	L 2:_	Technician	Level	3: T	echnologis
Skill or Knowledge Category		Scale	*		Currac.	<u>.</u>	•	Curric.	4		f Curric.
(abbreviated)	,	Value	Task Cod	es	Ob Nos.	Task	Code	es Ob:Nos.	Task	Code	5 10b.Nos.
	Factors			F	atient	Care ((IV) ·	·	Rad.	Techi	nb(logy(II)
Implicative Skills-		1.0	262 271	283	• 1 <u>1</u> 9 -	33				371 \ 3	72 123
	• , , , , , , , , , , , , , , , , , , ,		•			143			373		, '
	. 4.	3	, ,	• -	•	· 1 6 82	185	29 9	• ' _		14
	-	<u> </u>				30)8					
	. ,	2.0	73 295		124	-280		125		280 3	
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				•	•		٠.	•		375 3	
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	•	1	,		•	e e	• •			381 3	
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Table 5 (continued)	<u> </u>						• •		• •			11 of 30
	· /	_		1 1:	Aide		1 2:				3: Te	hnologist
Skill or Knowledge Category	· /	Scale	I	•	Curric.			٨	Curric.		•	Curric.
(abbreviated)			Task Ço	des	Ob.Nos.	Tasl	k Co	des	Ob.Nos.			Ob.Nos.
	Factors:				Patient'				<u> </u>			logy(III)
Financial Consequences of Error	,	1.0	73 74	98	129	18	33	65	130	280 3	53 35	133
			113 138	153	•	133	143	156	· A	356	57 358	3
4			155 166	199		181	r85	198		359 3	60 36	=
1 _ ^ _			262 271	278	i	280	296	298		362 3	63 364	
1.			282_283	287		1	308			365 3	66 36	7
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4	j		•		-	•		•			88 389	
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Page 12 of 30

		L	evel 1:	Aide	Level	2: T	echnician	Level	Լ 3։	Tech	nologi	s t
Skill or Knowledge Category	Scale		 -	Curric.		•	Curric.				Curric	
(abbreviated)	Value	Task					s Ob.Nos.				Ob.Nos	
Factors	3:			Patient						hno]	logy(II	I)
Consequences of Error To Humans	1.0	73	74 98	138	133	198	139	353	•	٠,	142	
4	<i>i</i> i	113	155 199							•	•	*
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, -	3.0		153 166		33	143 1	.81 149	369	467		152	
		295		•	185			ŀ		-	•	
	5.5		282 521	. 153 .		280 2	96 154	81	280	355	157	_
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Table 5 (continued)						*				13 of 30
	T	L	evel 1:	Aide	Leve.	1.2: T	echnician,	Level	3: Tec	hnologis
Skill or Knowledge Category .	Scale			Curric.			Curric.		•	Curric.
(abbreviated)	Value	Task	Codes	Ob Nos .	Tasl	c Code	s Ob.Nos.			Ob.Nos.
Factors	:			Patient	Gre	(IV)			_Techno	logy(III)
11731200 Topographic anatomy	1.5	199	262 520	.169	1.8	308	170	373		171
	2.5	193		172						
	3:5			•	133	2 9 6 2	99 173		356 357	
		1			}	-			359 360	
			40				_		362 363	
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Table 3	Continued							}				- 45	
		· · · · ·	~			Level Î:			2: Tec	hnician		·3: Tec	hnologis
Skill of K	Cnowledge Cat	egory	•	Scale		 -	Curric.			Curric.		•	Curric.
(abbreviat		. •	1 .	Value	Task	Codes	Ob.Nos.	Task	Codes	Ob.Nos.			Ob Nos
	•		Factors	: 1			Patient	Care ((IV)				ology(III
11731400	Circulatory	system	(cardio-	1.5	262	520 ·	178	18	308	· 179			180
•	vascular,	lymphat	ic)						•			504 509	
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-			•									514 515	
,	•					,		-	i	ari .		517 518	} ~~
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•				2.5			•	296	,	181		<u> </u>	
11733600	Disorders o	f t ircul	latory	1.5	199.	262 520	205	308		206		35 5 · 356	
	system ·		,]							1	358 359	, -
	•		·	_				-		•		361 363	
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		t	• •		-							368 369	
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	Table 5	(continued)				,		•		,	Páo	e 15 of 3
ī	Table 5	(CONCINGED)	1	† L	evel	1: Aide	Level	l 2: '	Technician	Level		chnologis
	Skill or I	Knowledge Category	Scale	·		Curric		1/	Curric.		-	Curric.
	(abbrevia		Value	Task	Code	s Ob.Nos	. Task	Code	es Ob.Nos.		Codes	
		Factors				Patient						ology(III
	11737100	Bandages, dressings,	1.5	283	295 •	\$ 238	33	522	239		505 50	
		tourniquets, splints					. [•		508 - 50	
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	,		ļ.	ŀ	•	·				514	515 51	. /
, , ,		,	2.5	<u> </u>			156		2/1	219		
,			3.5			· · · · · · · · · · · · · · · · · · ·	296		241 242			
Ì	11737200	Hemorrhage, bleeding; their .	1.5	521		243	522		244			
4	,17 <i>372</i> 00	arrest	3.5	721	`	243	296		245		•	
	11737300	Handling, transportation of	1.5	153	155 2	95 246	-		<u> </u>			
		sick, wounded	2.5		190 2		243		248	36.9	F 4	249
		•	3.5		199 2		156		251		371 46	
				490		_						
φ		,	5.5		4		296	7.	253		355 35	
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Ī			7	İ	. L	evel 1:	Aide	Level 2:	: Technici	an Lev	el 3:	Tech	mologist
	Skill or Knowledge	Category	•	Scale			Curric.		Curr	ic.			Curric.
Ī	(abbreviated)	,	ر د .	Value	Task	Codes	Ob. Nos.	Task Co	odes Ob.N	os. Ta	sk Co	des	Ob,Nos.
T			Factors					Care (IV)) 5	Ra	d. Te	chno]	logy(III)
Ī	11738000 Asepsis		•	1.5	193		265	18	.26	6			
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.		`						1	•		7 368		
	/ , •				,		, •	1.	•		4 381		,
1	•	, .									<u>3_384</u>		
ı	,		• •	3.5	166	490 520	272	65_133	3 143 27		3 370		274
	14	•					•	156 183			2 373		.
- 1					•			299 308	8		6 377		
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	Table 5	(continued)							<u> </u>	<u>-</u> -	٠ ۵ -			17 of 30
Ī			, , ,		1	L	eve1 1:			2: Te		Level 3:		
		Knowledge Catego	ory 🗼 🛴		Scale		· ' · ·	Curric.			Curric.	1		Curric.
L	(abbrevia	ited)	,	· ·,	Value	Task	Codes				Ob Nos			
			•	Factor			•	Patienť		IV)	l* 	Rad. Te	chnolo	gy(III)
$\cdot \lceil$	12210000	Radiobiology .		, *		520		<u>' 275, '</u>	308		276		<u> </u>	:
1					2.5	,	<u>, </u>	••	280		278	280 369		280
	٠			. ` .	3.5		, , , , , , , , , , , , , , , , , , ,	*		•		81 353		282
				·			-7	•			•	356 357		,
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		`	•••		· •	;			•			362 363		· v _
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1	и ,		•	- ,	, ,					•		368 370		,
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		with the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t	~ y ,	. ,		, .	´ , •	• - • ,			, *	375 376		
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١.	•		(<u> </u>			, <u>,</u> , , ,	, * ,	· 1		• .	381 382	383	
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Table 5 (continued)		- /	•		•	,		Page	18 of 3
	. **	L	evel 1	: Aide	Level 2: Te	chnician	Level	3: Tec	hnologis
Skill or Knowledge Category .	, Scale	1		Curric.		Curric.			Curric.
(abbreviated)		Taşk	Codes	Ob.Nos.		Ob.Nos.			Ob.Nos.
Factors	s:			Patient	Care (IV)	*	Rad.	Techno	logy(III
12223000 Diagnostic radiography	2.5	73	74	285	65	286	369		289
	3.5]	•	4.	•	•		373 464	
	5.5	,	•	•				356 357	
·,		ŀ		•	***	w		359 360	
			-					362 363	
	1	į	• •					365 366	
						•	1	368 370	
		٠.	,		- ~			374 3 7 5	
7		•		*	•			377 378	
			• ,	•	-		1 '	380 381	
		۲.					1	383 384	
	•			•		-	1	386 387	
	-	-	,				1	389 390	
		, '	\ .	•			1	465 466	-
· · · · · · · · · · · · · · · · · · ·						•	,	468 491	
							l.	493 494	
	Ţ			-	,			496 497 499 500	
		}		, * *			L	502 5 03	
				•	*			505 506	
	. ,		\smile		*		1	508 509	
	*		• •		•		1	511 512	
	*	•			*	•		514 515	
	4	_	•	• /				517 518	
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	7.0		-	-	 		81		294
Procedural Objective (task sequences		73	74 9	8, 346					
and equipment not elsewhere covered)	**		138 15				4	→ •	`,
	. ,		166 190			<i>a</i> •			
	1		199 26			. •	'		i
• • • • • • • • • • • • • • • • • • • •	·, ,	271			,	_	1		
		281	282 28	3		• •		,	
	† ·		289 290			, ^ •	Same !	`	
		291	292 29	5. ''				,	•
		301	302 30:	3		₩	. •		
	1		520 52		1,		<u> </u>	<u> </u>	
	٠.	Leve	1 1 Pa	tient Car	e .		*		
<u> </u>	 	curr	1 culum	ends her	e.	· · · · · · · · · · · · · · · · · · ·	1		
	•			<i>y</i>	1 _		•		

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Table 5: 2(continued)	r 1	· \ '		Page	19 of 3
Table 5 '(continued)'	Level 1: Aide	Level 2:	Technician	Level 3: Techr	ologist.
Skill or Knowledge Category,	Scale	•	Curric.	``	Curric.
(abbreviated)	Value Not Required	Task Codes	- Ob.Nos.	Task Codes	Ob Nos
(abbreviated) Factor		Patient	Care (IV)	Rad. Technolo	gy (III)
Leadership Skills	. 1.0	33	37		, <u>x</u>
beaueramp sarriag	4.5	296	40	,	
Taxonomic Skills	12.0	296 ·	116	81 355 356	-118`
			4	357 358 359 360	←
		••		361 362 363 364	
	·		• •	365 366 367 368	•
			•	369 370 371 372	•
.•/		•	` •	373 374 375 376	
			•	377 378 379 380	•
		, , , ,	•	381 382 383 384	
•				385-386 387	•
	· \(\cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cd		•	389 390 463 44	•
· 💉				465 466 467 468	
•			`	491 492 493 494	•
		-	.,	495 496 497 498	
		٠.	•	499 500, 501 502	~
	_ [1 min 1 min	•	503 504 505 506	. ~!
			*	507 508 509 510	• , *
	`			511 512, 513 514	
•		•	•	515 516 517 518	
			·	519 526	182
11731500 Respiratory system	1.5	,		362 364 374 378	102
		•	-	379 380 494 497 498 526	. ,
			183	498 320	
, , ,	2.5	296	183	363 387-388 389	189
11731700 Winary system	1.5			390 463 495 501	
•			₹	502 526	,
<i></i>		1/2	100	JUZ JZU	
	2.5	143	190	*	-
	3.5	181	191	 	-
11734600 Burns +	3.5	, 130 , .	217		•
	· ·	1		<u> </u>	

	Table 5 (continued)	•		•)		Page 20 of	
-	Tubic 5 (congrued)	1/	Level 1: Aide.	- Level 2: Tec	hnician	Level 3: T		
,	Skill or Knowledge Category	Scale			Curric.		Ćurri	
!	(abbreviated	:Value	Not Required	Task Codes	Ob.Nos.	Task Codes		
İ	Factors		3	Patient Car	e (IV)		nology (II	
• †	11734800 Shock and trauma	1.5				369 463 464	218	
٠,		2.5		- ' '		353 355 356		}
i				المساد المساد	Λ	358 359 360	361	<i>'</i>
		,		<i>'</i>		362 363 364	365	
!				-	. 1	366 367. 368		
	415	· `			. 1	375 376.377		.
	,		•			379 3 8 0 381		
		1	•			383 384 385 387 388 389		1
,	•			•	•	A65 466 467		: -
,				•	•	491 492 493		-
	1 -	-				495, 496, 497		1
	, , ,			· · · ·		499 500 501		
			- "		r	503 504 505		
8		•			•	·507 508 5 09		į
50	• • • • • • • • • • • • • • • • • • • •		,			511 512 513	514 :	
			l		·	515 516 517		\mathcal{X}
			4.	,		519 526 ·	<u> </u>	•/
		3.5	,	296	220			
	117B5100 Operative procedures	1.5	-/	65	* 222	371 379 464		
_	11/35400 Introductory procedures	.1.5,		18 65 .182	225	353 377 378		7.
_ \			i 4		,	382 383 385		
	I a second amount of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon	-				387 388 389		
		,	7	_	\ •	463 497 499		1
			•		,	501 502 503		.]
			•			505 506 507		Ì
-		1				509 510 511		
						513 514 515 517 518 519		
				1/2 101		465	- 22	0*
•		2.5	-	143 181 133 296 299	228	403	- 22	-
in.		3.5	/	33 296 299	230 232			
,	11735600 Suture	1.5	*					
	***************************************	· · · · ·	<u>·'</u>	• • •		•		

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Table 5 (continued) "	<u>*</u>	<u> </u>	- Page 21 of 30
_	Level 1: Aide		Level 3: Technologist
Skill or Knowledge Category	Scale	. Curric.	Curric:
(abbreviated)	Value Not Required		
Factor		Patient Care (IV)	Rad. Technology (III)
11737000 First aid and care	2.5		353 355 356 357 235
			358 359 360 361
•		- "	362 363 364 365
	']		366 367 368 374
۶.			466 468
	3.5	. , ,	509 510 511 512 236
		į	513 514.515 516
		=-	517 519
	7.0	296 237	•
11737400 Sprains strains,	. 1.5	,	363 364 367 368 255
fractures; their	· -		369 374 375 376
healing		•	378 379 380 381
		t	382 383 384 385
	, ·		386 387 388 389
	· ·	,	390 463 464 465
· · · · · · · · · · · · · · · · · · ·	,	•	466 467 468 495
		•	497 498 499 500
			501 502 503 504
		• • • • • • • • • • • • • • • • • • • •	505 506 508 509
		•	510 511 512 513
•			514 515 516 517
† ,	. .	•	518 519 526
	2.5		353 355 356 357 256
			358 359 360 361
	· · · · · · · · · · · · · · · · · · ·		362 365 366 370
			377 491 492 493
		!	494,496 507
,	3.5	296	
11737600 , Resuscitation	7.0	296 258	
1			

		Level 1: Aide	: Level 2: Tech	nnician	Level 3: Techno	logist
Skill or Knowledge Category	Scale			Curric.	,	Curric.
(abbreviated)		Not Required	Task Codes	Ob Nos.	Task Codes	Ob Nos.
Factors		<u>, </u>	Patient Care	(IV)	Rad. Technolog	y (III)
11737700 Wounds and their	1.5	1	522	259	353 355 356, 357°	260
• healing			,	•	358 359 360 361	_
•	1	-	*		362 363 364 365	
	1			ı	366 367 368 369	•
•	-	•	•	,	374 375 376 377	
			•		-378 ³⁷⁹ 380 381	
•	ł				382 383 384 385	
		,	*		386 387 388 389	-
				ĺ	390 463 464 465	
, tu		•			466 467 468 491	
•		_			492 493 494 495	
-	1	2	V	, -	496 497 498 499	-
• • •				-	500 501 502 504	
			, .		.505 506 507 508	
				1	5 09 510 511 5 1 2	
		• -		,	513 514 515 516	
•			_ , , ,	. [51 518 519 526	
,	2.5		296	261	503	. 262
• • • •	3.5		156	263		
	5.5		33	264		
12300000 Pharmacology	1.5	,	133 198 298 299	. 295		
12331000 Pring toxicity, antidotal	1.5	 	* * * * * * * * * * * * * * * * * * * *	. 200	375 376 377: 378	297
• therapy	1.7		, , '		380, 384 385 387	_,,
·	1	•		ر ار	388 389	
	.2.5	1	133 198 298 299	, 298°	, 500 305	· · · · · · · · · · · · · · · · · · ·
12332000 .Drug idiosynerasy,allergy			133 170 270 277	, 290	375 376 377 378	299
9 , 3 , 9 ,	1.7	, "	,	'•	380 384 385 387	-,,
pharmacogenetics ,	-) . O,.			388 389 ,	•
	2.5	•	33 133 198 298	300	, , , , , , , , , , , , , , , , , , , ,	•
	2.5		299	\ 300 g	•	•
12334000 Drug tolerance, physical	2.5		133 299	301		-
	2.5		1 100 477	., 301		•
dependence		·		_		-, - ,

Table 5	(continued)			-		· •	Page 23 of
			Level 1: Aide	Level 2:	Technician	Level	3: Technologis
Skill or,	Knowledge Category	Scale			. Curric.		Curri
(abbreviá	ted)	Value	Not Required	Task Codes	Ob Nos.	Task Code	s Ob:No
	Factors				Care (IV) .	Rad, 7	echnology (II
12335000	Drug synergism	2.5	1	133 198 298	299 302		-
12336000	Chemical teratogenesis	2.5		133 299	•303		
12341100	Antibacterial, antifungal	2.5	4	198 298	304		* .
*	chemotherapy	3.5	P	. 33 133 299	:305		1 , 4
12341300	Cancer and virus chemo-	2.5		198 298	306		· 3
	therapy	3.5	1	133 .299	307	, , ,	•
.12342100	Drugs acting on cardio-	1.5		296	308		4
	vascular system, smooth	2.5		198 298	, 309 [™]	, ,	
	muscle	3.5		.133- 299	310	3/	-
12342200	Drugs acting on the blood	2.5	,	198 298	311"	, ,	la .
		3.5		133 299	312	.1	1,7
12342300	Hormones, drugs acting on	2.5		198 298	313	/	
1	endocrin glands, acces-	3.5		133 299	• 314	, .	1.4
• -	sory reproductive	,			٠.,	/	, t
* •	organs	1					
12342600	Drugs for allergy, cough,	2.5		198 298	315		
;	vomiting (13.5	•	133 299 * -	316	,	,
12342700	Drugs acting on gastro-	2.5	, -	198 298	317		٠, ^) .
	intestinal tract	3.5		133 *299 `-	318		,
12342810	Prugs acting on autonomic	,2.5		198 298	319		
	nervous system	3.5		133 299	320	100	`
12342820	Drugs acting on neuro-	2.5		198 298	321		
-	· museular system ·)	3.5,		133 299	322		
		1	•		•	1	• ,

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	Table 5 (continued)	1	Lèvel 1: Aide	Level 2: Technician	Page 24 of 30 Level 3: Technologist
b '	Skill or Knowledge Category	Scale		Curric.	Curric.
•	(abbreviated)√		Not Required	Task Codes Ob.Nos.	Task Codes Ob.Nos.
· · ·	Factors			Patient Care (IV)	Rad. Technology (III)
•	12342830 Drugs acting on central	1.5		•	353 355 356 357 323
. \	, nervous system	1.		•	358 359 360 361
,		1.	•		362 363 364 365
					366, 374, 375, 376
, •-	h h			• •	3 77 378 379 380
	A	, '			386 388 389 390
*					465 .467 491 492
		٠. ا	1	•	493 494 495 496
					499 500 501 502
	\	1 ,	,	,	503/504 505 506
			-	,	507 508 509 510
• •	` \	1.			511 512 513 514
	· · · · · · · · · · · · · · · · · · ·				515 516 517 518
œ	· ·			,	519 526
8-64			, ,	198 298 324	
. 1	102/2000	-3.5	. 6	133 299 325	
′	12342900 Drugs acting on immund-	2.5		198 298 326.	
	logic system	3.5		133 299	000 252 255 256 221
•	15222500° Interaction with radia-	1.5	-	280 329	280 353 355 356 331
	tion		•	• .	357 358 359 360 361 362 363 364
• • •	,				
` ,		(·		365 366 367 368 369 370 371 372
*			,		373 374 375 376
					377 378 379 380
•	-		•		381 382 383 384
•		<i>,</i>	`	,	385 386 387 388
			,		389 390 463 464
•		•			465 466 467 468
		1			491 492 493 494
				•	495 496 497 498
•	•				499 500 501 502
	· ~				503 504 505 506
	•				507 508 509 510
103	, , ,	1 '	,	•	511 512 513 514
('		1		·	515 516 517 518
	, , , , , , , , , , , , , , , , , , , ,				Jag Jaj Jag -

Table 5 (continued)		G.	1	Page 25 of 30
	1 .	Level,1: Aide	Level 2: Technician	Level 3: Technologist
Skill or Knowledge Category	Scale	4	Curric.	. Curric.
(abbreviat@d)	Value	Not Required	Task Codes Ob.Nos.	Task Codes Ob.Nos.
Factors	. ,		. Patient Care (IV)	Rad. Technology (III)
65620000 Mechanics of writing	1.5	,	33 156 <u>182</u> 342	
English .	2.5	,	^ . 1	81 353 355 356 344
	1		`	357 358 359 360´
-			•	361 362 363 364 .
· ·		•		365 366 367 36 8 ′
	•		·	370 371 372 373 .
,	1 .	1	-	374 375 376 377
		: , ,	•	378 379 380 381
· +	,		-	382 383 384 385
	1	-		386 387 388 389
	•		·	390 463 464 465
· ,				466 467 468 491
		,	per eq	492 493 494 495
•	J	. '		496 497 498 499
	1			500 501 502 503
	1			504 505 506 507
				508 509 510 511
	-	<u></u> .	• .	512 513 514 515
				\$16 517 518 5 1 9
	4			526
Procedural Objective (task	· -		18 33 65 133 347	
sequences and equipment		, ,	143 156 181 182	
not elsewhere covered)	4		185 198 243 280	-
,	1	- '	296 298 299 308	,,
	 		522	
	1.	•	Level 2 Patient Care	,
1	r		curraculum ends here.	

Table 5	(continued))
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	-	7		•	
Table 5 (continued)		·	•		26 of 30
	i	Level 1: Aide	Lével 2: Tecn.	Level 3: Technologis	
Skill or Knowledge Category	Scale		• -	·	Curric.
(abbreviated)	Value	Not Required	Not Required	Task Čodes	Ob.Nos.
Factors			· ·	Radiologic Technology	(III)
11731000 Normal structure and	2.5	· ·		353 362 363 368 371 376	162
function	1	•		378 381 382 383 384 385	
Tunction		}	•	386 387 388 389 390 463	٠,
-		1		465 496 500 501 502 503	•
			•	511 512 513 515 516 518	•
		1		519	
11701100	2.5		· · · · · · · · · · · · · · · · · · ·	372 464	163
11731100 Regional anatomy	3.5			355 356 357 358 359 360	165
	J 3. J,			361 362 363 364 365 366	
•	1		•	367 368 370 371 373 375	
•	1			376 377 378 379 380 381	
•			•	382 383 384 385 386 387	•
				388 389 390 463 465 466	},
	1 .			467 468 491 492 493 494	
ni ni		• •	•	495 496 497 498 499 500	į
•		,		501 502 503 504 505 506	
	ļ		•	507 508 509 510 511 512	
	ł	•		513 514 515 516 317 518	ŀ
		*	•	519	•
		<u> </u>	<u> </u>	81 374 526	167
	5.5		<u> </u>	353	168'
^-	7.0	<u> </u>		516	177
11731300 Hematopoietic system	1.5			363 374 495 526	184
11731600 Digestive system	1.5			364 374 375 381 494 499	185
11731610 Mouth, pharynx, emophagus	1.5.			381 382 499 501	186
11731620 Stomach, small intestine	1.5			383 500 501	187
11731630 Large intestine, rectum	1.5	 		371 384 385 386 387	188
11731640 liver, biliary system,	1.5	1.	•	3/1 304 303 300 307	
pancreas	,	!	•		' , '
· ·		1	·	<u> </u>	 ,

	, , , , , , , , , , , , , , , , , , ,	(d)					•					• .	Pana '	Ž7 of	ลก
1	Table 5	(continued)	. •		Tota	l 1: Aide	1 0110	1 2 . T	'o om	T.	evel 3:				ٽ .
ı	C1-451 1	(i i: Aide	reve	:1 2; 1	ecn	116	ver J.			Curric	\dashv
-		Knowledge Category		Scale		D = =d == = d		D = 4 - 4 =	د.	Task Co	don	4		Ob.Nos	
	(abbrevia				INOL	Required ·	NOE	Kequir	ea-		lologic				ᅴ
•	1170100		ctors:				•	•	• •						{
	11/31800	Musculoskeletal system	[2.5			e#		•		357 3			172	- 1
		•	*			,		•	٠,		363 36				
		•]	•		-	• .		3 370 🔉				- 1
					ł	, ₹.		•	-		380 38			_	. 1
	,		,			٠.,		•	,		389, 39				- .
	4		· •		ł				•		468 49			•	· ľ
•		\$		•	1	3	• •	,			496 49				- 1
	,	•	긕		}				•		L 502 50			• •	
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	,	,	. '		1.			•			3 514 5	.5 516	517		
	,			1	l	,	•			518 519					_1
		. `		3.5	I	•	,			374 520				193	\dashv
	•	, ,	, <i>.</i>	5.5					`	81 35				194	_
	11731820	Bones and joints		2.5		•			•		367 3			195	I
				1	İ		• •		-		381 38			δ'.	
		•		•	Ι.		4				390 40			•	
		•	'	-	1			•			3 495 49			•	
	•	·	_	, .				-		500 50	L 502 50	3 504	505€		- 1
	•	•	*						. 4		3 509 53				
٠ (•			1.		_		•	513 514	515 5	6 517	518		
		• • • • • • • • • • • • • • • • • • •		1 -	1					519					
	1			3.5	1 .		,		,	355 350	5 357 3	8 359	360	196	. 1
	,	•	•.		1	•				361 362	2 365 36	6 370	374		
					1 .			,		377 49	432 49	3 494	496	•	
	_	•	•	1 1	1	•				507 520	5	•	•	_	
	•			.7.0	+-			_		353 .				197	
	117319107	Central nervous system		1.5	1	•			7		505 50	6 507	508	198	
	11,51,10	' Contrar nervous byspem	• • «		Ч		`•	•		509 520		f	, (
	11731943	Eye and optic nerve		1.5	┝				.4	367			•	199	
,		Male reproductive system	<u> </u>	1.5	†					374 50:	3 526		· ·	200	\neg
		Female reproductive sys		1.5.	 	-					5 466 40	7 468	503	201	ヿ
	11/32223	remark reproductive by	···	1	1	•	\		-	512 520		•			
ſ	<u> </u>	•	•		1.			a •	,	1	-	٠,		;	4
٢.	.l)		<u> </u>	<u> </u>					<u></u>	·				-

Table 5 (continued)			1		Page 28 of 30
•	Scale		Level 7: Tecn.	Level 3: Techn	Curric.
Skill or Knowledge Category (abbreviated)		Not Required	Not Required	Task Codes	Ob.Nos.
Factors		· · ·	2	Radiologic Techn	ology (III) ·
11733200 Neoplasms (cancerous growths)		• / .		353 362 363 364 366	368 202
11/33200 Neopiasiis (cancerous growths)			•	. 374 375 376 378 379	380
	1	1	•	381 382 383 384 385	
		-		387 388 389 390 463	
			•	494 495 498 499 500	
,				502 504 505 506 508	
,				511 512 514 515 516	518
•	· ·	<u>.</u>	, , , , , , , , , , , , , , , , , , , ,	4	, 510
				526	203
-11733400 Disorders of blood, blood-	1.5		, ,	516	203
forming organs*	41	4 <u>, </u>	·		
11733510 Disorders of central	1.5		,	504 505	3 509 . 204
nervous system		•	•		<u>*</u>
11733700 Disorders of digestive	15			363 371 375 381 382	2 383 209
	1.7		•	384 385 386 387 495	499
system	*	,		500 501	
	1.5	1		353 355 356 357 358	3 359 210
.11733800 Disorders of respiratory	1.5		* *	360 361 363 364 365	
system	\		,	1	377
			and the second second		
-	,			381 382 383 384 385	
•	",			387 388 389 390 46	
· · ·	, I	•		465 466 467 468 49	
	- [· · · .		493 495 496 497 49	9,500
	, · ·		,	501 502 503 504 50	5/ 50 6
	1	1.	• •	507 508 509 510 51	1 512
		٧		513 514 515 516 51	7 518
,	1		1	519 526	<u> </u>
		 	·	362 374 378 379 38	94 , 211
	2.5		•	498	· · · · · · · · · · · · · · · · · · ·
	<u> </u>			363 387 388 389 39	0 463 212
11733900 Disorders of uro-genital	1.5	•	• • •	363 307 300 309 339	
system		,	, ,	465 466 495, 501 50	کر کار
•	-			<u> </u>	

·	•	-	•		\			· y.	•			•
Table 5	(continued)					•			<u>. </u>	١ .		29 of 30
			Leve	1 1: Ai	de Lev	el 2:	Tecn.		Level	3: Te	chnologi	
Skill or	Knowledge Category	Scale	i —		•	•	· , · .					Gurric.
(abbrevia	ted) &	Value	Not	Require	d Not	Requ	ired		Codes			Ob.Nos.
	Factors	:			•				ladiolog			
11734200	Disorders of musculoskeletal	1.5	1	•				363	364 367	369	370 374	213
	system	•	ļ	•				375	376 378	3 79	380 381	,
		•		/ .			*	`382	383 384	385	386 387	
				4			•	388	389 .390	463	464 465	· .
- •					٠.			, 466	467 468	495	497 498	
	•		1		:			499	500 501	502	503 504	•
-	• • • •		. '	•	_			505	506 508	509	510 511	نر مه
	,			•	٠	_		512	513 514	515	516 517	
			· _						519 526		<u> </u>	<u>. </u>
	2	2.5	-	•		, .	, ,	-	355 356			214
1							•		361 362			_ ,
1 4				•5		٠,	,		491 492	493	494 496	
	, , , , , , , , , , , , , , , , , , , ,			· · · · · · · · · · · · · · · · · · ·	4			507	<u> 1</u>	· •		<u>-</u> -
11734300	Congenital abnormalities	1.5	•	•	4	•••	· •		496 497	499	500 501	- 215
									503.		<u>. </u>	
11734400	Disorders, complications of	1.5		<			1	466	467 468	512	١	216
<u> </u>	pregnancy, birth		ļ .							·		
11735000	Surgery . • * .	1.5	-						373		- -	221 224
	Repair surgery	1.5	<u> </u>					370				
11735500	Endoscopy	1.5	ļ		· <u>'</u>	_		3 79				231
11735800	Delivery methods for child-	1.5	-		,-	*	~	,466	468.	` <i>.</i>		233
1170000	birth	3 5	-		-			270	271 272	272	4.62 /.00	234 –
11736000	Anesthesiology	1.5	١.		٠.				371, 372			
			"		Ī	1		526	513 514	210	710, 713	* , .
2200000		1 =						526 526		.•		336
33000000		1.5					<i>y</i>		362 369	36/	365 366	337
41666700	, , ,	1.,	'	•					374 ⁴ 376			- 1
1	development			•	4		• ,		374 370 385 3 8 6			٠.
	•				,				463 665 465 465			·
	, - (Γ	,					502 504			
•									511 512			•
	• •		1	•	, •				517 518			
1		•				•		1 1	,110	J 1 7	220	
											<u>-</u>	

lable 3 (continued)		, , , , , , , , , , , , , , , , , , , 	· · · · · · · · · · · · · · · · · · ·	1 Our Wash and and
	•4 7 •	Level 1: Aid	e Level 2: Tecn.	Level 3# Technologist
'Skill or Knowledge Category `♠´	Scale		1	Curric.
(abbreviated)	Value	Not Required	Not Required	Task Codes 🗼 Ob. Nos.
Facto		,	; .	Radiologic Technology (III)
Symbolic Skills	1.5.	1	•	355 356 357 358 359 360 115
•	`	1		361, 362 363 364 365 366
	İ	7		367 368 370 371 372 373
	.			-374 375 <u>376 377</u> <u>37</u> 8 379
	-		•	380 381 382 383 384 385
		† `		386 387 388 389 390, 463
	-'			464 465 466 467 468 491
	• -			492 493 494 495 496 497.
	1.		٠ . م	498 499 300 501 502 503
				504 505 506 507 508 509
				510 511 512 513 514 515
				516 517 518 519
5/1200000 Algebra	1.5	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	355 356 357 358 359 360 339
M200000 Aigesta	1.5	1	•	361 362 365 375 491 492
		.:		493 494 495 496 511 518
Procedural Objective (task sequences				81 280 353 355 356 357 350
and equipment not elsewhere covered		•	•	358 359 360 361 362 363
and equipment not elsewhere covered	· · ·			364 365 366 367 368 369
		•		370 371 372 373 374 375
			_	376 377 378 379 380 381
		'		382 383 384 385 386 3 8 7
		•	•	388 389 390 463 464 465.
	. •	`		466 67 468 491 492 493
• • •				494, 495, 496, 497, 498, 499
4 4				500 501 502 503 504 505
1	-		·),	506 567 508 509 510 511
	,	- 1	(, · · ·)	512 513 514 513 516 517
	1	•	,	518 519 526.
		+		Level 3 Radiologic Technologist
	• ,	↓ ' ˆ . →	•	curriculum ends here.
		!		Turney Transfer

20. Note: The assignment of tasks to factors and levels is presented in Appendix E. The scales are presented in Appendix C. The full knowledge category names appear in Appendix B and Table 2.

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Table 6. CURRICULUM OUTLINE FOR ADMINISTRATIVE TASKS: TO BE INCORPORATED IN CURRICULUM FOR THE RADIOLOGIC TECHNOLOGIST IF DESIRED

Page 1 of 1

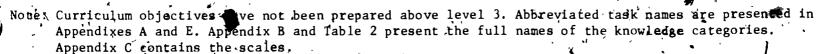
FOR THE RADIOLOGIC TECHNOLOGIST IF		rage 1 of
	Level 3: Techn	nologist
Skill or Knowledge Category	Scale o	Curric.
∡abbreviated) '	Value Task Codes	Ob.Nos.
Facto		factor A)
Human Interaction Skills	1.0 132 272 277	25
, and i	3.0 76 128 129 131 165 186	31
	5.0 293	35
Leadership Skills	1.0 186. 272 294	39
, , ,		^ , 41
•		•
Oral Use of a Relevant Language	2.0 76 128 129 131 132 165	
	4.0 186 293 294 -	52
	· · ·	
Reading Use of a Relevant Language	2.0. 76 128 129 131 272 277	293 294
		•
Written Use of a Relevant Language	2.0 165 293	69
Decision Making on Methods	1.5 294	. 76
,	3.0 76 131 132 165 186 272	277 293 82
Decision Making on Quality	3.5 76 128 129 131 132 165	
	5.5 293	100
	7.0 186 272	. 105
• • • • • • • • • • • • • • • • • • • •	, .	
Financial Consequences of Error	1.0 76. 129 131 132 165 272	277 134.
		*
Consequences of Error To Humans	1.0 76 128 129 131 165 186	272 277 294 143
•		
Procedural Objective (task sequences	- 76 128 129 131 132 165	186 272 277 · 351
and equipment not elsewhere covered)	293 294	•
, .		

Note: Curric. Ob.Nos. = curriculum objective numbers. These appear in numerical order in Chapter 8 of Volume 2. Abbreviated task names appear in Appendixes A and E. The assignment of tasks to factors and levels is presented in Appendix E. The scales are presented in Appendix C. The full knowledge category names appear in Appendix B and Table 2.

Table 7. CURRICULUM REQUIREMENTS FOR QUALITY ASSURANCE PROFESSIONAL (RADIATION PHYSICIST): FACTOR VI AT LEVEL 5.

Page 1 of 2

FACTUR VI AT LEVEL 5.					Page 1 of 2
Skill or Knowledge Category	Scale	1		Scale	
(abbreviated) •	varue	Task Codes	(abbreviated)	varue	Task Codes
Object Manipulation Skills Human Interaction Skills		558 559 560 528 542 546	Sýmbolic Skills		558 559 560` 528 542 546
iduali interaction brills	7.0	1		3.3	I
		547 557	.,,	<u> </u>	547_557
,	5.0	541 555 558	Taxonomic Skills	2.0	541 542 547
•	-	559 560			555 558 559
Oral Use of a Relevant Language	7.5	528 541 542		1.	560
oral osc of a Kelevanic Bangdage	1 /. 5			5.5	
,		546 547 555			528 546 557
		557 558 559	Implicative Skills	1.0	
		560	•	2.0	547 5 85 \$ 58
Reading Use of a Relevant Language	2.0	541, 555			559 560
Redding, obe of a Relevant Bangdage		558 559		4.0	528 542 546
11		528 542 546.		. 4.0	557
	Į	· · · · · · · · · · · · · · · · · · ·	T' C T C	1.0	541 555 558
	-	547 557 560	Financial Consequences of Error	1.0	
Written Use of a Relevant Language	2.0				559 560
,	5.0	528 542 546	•	64.0	528 542 546
,	1	547 555 557			547 557
		558 559 560	Consequences of Error To Humans	2.0	560 ک
Decision Making on Methods	4.5		doined denote of Error to members		559
been raking on nechods	"	558 559 560	•	1	541 555 558
	7.0	528 542.546		7.0	528· 54 2 546
		557	• •	′.0	547 557
Dended as Malidae as Oscillator			11721100 Part and and and	2.5	528 546 547
Decision Making on Quality	7.0	528 541 542	11731100 Regional anátomy	4.5	i .
	,	546 547 555	· ·		557 559
		557 558 559	•	5.5	541 558 560
		560	12210000 Radiobiology	2.5	528 541 542
Figural Skills -	3.5	546 547 558		3.5	546 547 557
		559` 560		,	558 560 -
	5.0	54-1		5.5	555 559 .
	1		12220000 Radiology	2.5	555
		,	TEELOOO RAUTO 1089	1	
· · · · · · · · · · · · · · · · · · ·	ــــــــــــــــــــــــــــــــــــــ		<u> </u>		·





Skill or Knowledge Category (abbreviated)	Table 7	(continued)	•	r. <u>*</u>				Pag	e. 2	oŧ
(abbreviated) Value Task Codes (abbreviated) Value Task Codes 12221000 Radiotherapy 2.5 555 2.5 555 12223000 Diagnostic radiography 3.5 542 2.5 555 5.5 57 5.8 547 555 2.4 12000 Electronic devices 1.5 541 542 5 12224000 Radionuclide analysis 2.5 528 547 555 2.5 555 1411100 Solutions 2.5 542 557 559 3300000 Computer technology 2.5 558 559 559 15212100 Deterric circuit theory 1.5 541 555 58 560 97 598 542 546 15222200 Atomic structure 2.5 528 547 559 528 557 559 15222200 Interaction with radiation processes 2.5 528 546 547 2.5 528 557 559 550 2.5 528 557 559 520000 Photography, cinematography 1.5 541 558 59 24110000 Electromagnetic field 1.5 528 557 559 528 560 547	Skill or	Knowledge Category	Scale	. ,	Skill or Knowled	ge Category	Scale	•	-	'n
12223000 Radionuclide therapy 2.5 555 528 547 555 528 547 555 528 547 555 528 547 555 528 547 555 528 547 557 559 5222100 Atomic structure 2.5 528 547 557 559 5522200 Atomic radiation processes 2.5 528 547 557 559 559 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550 550			ł	, !			1 1	1	Coc	ies
12223000 Diagnostic, radiography 3.5 542 558 547 555 528 547 555 558 559 560 12224000 Radionuclide analysis 2.5 542 555 558 559 560 12212100 Diectric circuit theory 1.5 541 555 558 559 560 1222200 Atomic structure 2.5 528 546 547 557 559 1522200 Atomic radiation processes 2.5 528 546 547 557 559 15222500 Interaction with radiation 1.5 541 542 558 550 558 559 560 1222500 Interaction with radiation 1.5 528 546 547 547 557 559 15222500 Interaction with radiation 1.5 528 546 547 547 547 547 547 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548 548							2.5	528	557	559
5.5 528 547 555 557 7.0 541 546 558 559 560: 12224000 Radionuclide analysis 2.5 555 42 557 559 152100 Diectric circuit theory 560 547 557 559 1522200 Atomic structure 2.5 528 546 547 557 559 1522200 Atomic radiation processes 2.5 528 537 559 1522200 Interaction with radiation 1.5 541 542 558 560 560 560 560 560 560 560 560 560 560							1.5	541	542	558
557 7.0 541 546 558 559 560	12223000	biagnostic, radiography	<u> </u>		24152100 Electro	• •	,		, <u> </u>	,,,,
12724000 Radionuclide analysis 2.5 555		•		i .	*		2.5	•	546	557
12724000 Radionuclide analysis 2.5 555		· · · · · · · · · · · · · · · · · · ·	7.0							
14111000 Solutions		\·								
1.5212100 Descriptive statistics 1.5 541 558 559 558 559 558 559 558 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559 559					1	•	2.5	228	22,9	50
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Tasks at level 5, factor VI: 528, 541, 542, 546, 547, 555, 557, 558, 559 and 560.

CHAPTER 9

CURRICULUM OBJECTIVES

This chapter presents 351 HSMS curriculum objectives for diagnostic radiology. The curriculum objectives cover quality assurance at job levels 1 and 2, radiologic technology at job level 3, and administration at job level 3.

The curriculum objectives in this chapter are arranged in numerical order by Curriculum Objective Number. There is no chapter pagination; instead, the pages within each curriculum objective are numbered. The Curriculum Objective Number ("No.") appears at the upper right of each Curriculum Objective Sheet after the factor number and under the reference to the number of pages for the objective. All curriculum objectives start on a new page, so they can be pulled out and arranged in any way that suits the reader.

A description of the format of the curriculum objectives appears in Chapter 6. Curriculum outline tables, which arrange the curriculum objectives in educational ladder sequences, are presented in Chapter 8 and discussed in Chapter 7.

The task descriptions whose language is reflected in the objectives and to which the curriculum objectives refer by Task Code or by name are in Volumes 2 and 3 of Research Report No. 7.

Op. cit:

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CURRICULU	M OBJECTIVE SHEET Page 1 of 1
Type of (Objective Skill Factor IV No. 1.
Skill or	Knowledge Category Object Manipulation Skills Scale Value 1.5
	on Patient Care Aide Level 1
Refers to	Task Code No(s).: 98 153 166 199 262 283 292 301 302 303 520 521
•	
Is there	Cross Reference?Yes(X)No() If yes, see footnote(s).
. * ach: with to a	A graduate of the program at this educational level must be able to ieve the degree of control and precision in the manipulation of objects the fingers, hands, or limbs with the fineness of motion appropriate achieving the standards set for manipulation of objects in the following ivities:
1.	Attaching and/or removing self-adhesive urine bag; attaching label (Task 98).
2.	Using restraints to immobilize patient (Task 153).
3.	Putting on sterile mask, gown and glove for isolation or decontamination procedures; tying to fasten (Task 166).
/ ₄ 4	Using sphygmomanometer to take blood pressure (Task 199).
5.	Using controls to standardize ECG machine (Task 262).
. 6.	Applying gauze pad to wound; cutting strips of adhesive; applying tape

- 7. Taking small specimen of feces from container using rubber gloves
 and tongue depressor; placing into laboratory container (Tasks 292, 303).
- 8. Folding diaper; pinning into place on neonate or infant (Task 301).
- 9. Using wheelchair controls (Task 302).
- 10. Attaching ECG electrodes with clamp to amputee (Task 520)
- 11. Touching clot using sterile technique to judge whether it is hard; using marker to circle swelling or evidence of blood accumulation beneath skin (Task 521).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives Same scale value appears in: 2 3 4 5. Higher scale value appears in: 6 7 8 9 10 11 12 13.



COMMITTODOM OBSECTIVE SHEET			Page 1 of 1
Type of Objective Ski	11	Factor IV	No. 2
Skill or Knowledge Category	Object Manipul	ation Skills	Scale Value 1.5
Occupation Patient Care	Technician	•	Level 2
Refers to Task Code No(s) .:	198 298 308 522		
	:		*.
Is there Cross Reference?	.Yes(X)No()	If yes, see foot	note(s).
Content: A graduate of the	program at this	educational level	much be able to

achieve the degree of control and precision in the manipulation of objects with the lingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Measuring out, pouring medication into a calibrated cup (Tasks 198, 298).
- 2. Using oscilloscope display controls to center ECG display (Task 308).
- 3. Rolling sterile gauze into pad and wrapping with tape to make pressure dressing (Task 522).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision negessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 1 3 4 5.

Higher scale value appears in: 6 7 8 9 10 11 12 13.

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CURRICULUM	OBJECTIVE	SHEET

Page 1 of

Type of Objective	Skill		A		Facto	r	VI	No.	3 '	
Skill or Knowledge	Category	Object	Manipu.	lation	Skills	3		Scale	Value	.1.5
Occupation Quali	ty A s suran	ce Aide	, ,			1			Leve1	'1
Refers to Task Cod	e No(s).:	71 79	145 167	192 26	0 267	273	304	319	_	-
	_			7						

Is there Cross Reference? ... Yes(X) ... No.() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Removing processed radiographs from dryer and trimming corners with scissors (Task 71).
- 2. Adding measured amounts of barium sulfate and water to pitcher; filling enema cans; attaching tubes and clamping (Task 79).
- 3. Disassembling syringes and catheters (Task 145).
- 4. Wringing out cotton or cloth and removing foreign objects from intensifying screens (Task 167).
- 5. Fanning paper and inserting in xeroradiograph processor (Task 192).
- 6. Using syringe to measure and/or prepare medication for injection (Tasks 260, 304).
- 7. Applying print coater to processed film using applicator (Tasks 267, 319).
- 8. Removing and/or replacing roller assembly of automatic x-ray film processor (Task 273)

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 1 2 4 5.

Higher scale value appears in: 6 7 8 9 10 11 12 13.



Page 1 of 1

Type of Objective	Skill						Fac	ctor	V]	[No.		4	
Skill or Knowledge	Cat eg ory_	Obje	ecit l	Magir	oulat	ion	-Skil	lls	,	•	Seal	e V	alue	1.5
occupation Quality	Assuran	ce Te	chn:	iciar	1	•				,	_	L	evel	2
Refers to Task Code	No(s).:	178	524	525	527	529	530	531	532	534	535	5 36	337	
538 539 545 548 550)						_	٧٠.						
		•												-

Is there Cross Reference? ... Yes(X) ... No(,) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- T. Using spot film selector control (Task 178).
- 2. Removing, and/or rotating, cleaning various assemblies of computerized transverse axial tomography equipment, such as tape unit, scanning unit, headbox system; assembling headbag and inserting in unit (Task 524).
- 3. Loading tape in computer; threading onto take-up reel (Tasks-525, 527).
- 4. Loading paper and carbon ribbon in computer teletype unit (Task 527).
- 5. Operating collimator controls to adjust collimation (Tasks 178, 529, 530, 531, 534, 535, 536, 537, 538, 539, 545, 548, 550).
- 6. Mounting radiation detection device to collimator assembly; connecting radiation measuring instrument (Task 532).
- 7. Taking safety precautions, connecting equipment to measure voltage between x-ray tube electrode and ground or total voltage across tube; inserting mA meter across filament circuit, or connecting mAs meter or digital voltmeter in circuit as appropriate, or connecting mA meter directly to high voltage circuit (Task 535).
- 8. Tightening hardware on diagnostic x-ray equipment using hand tools' (Task 536).
- Mounting tomography attachment to radiographic examination table
 (Task 536).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference · Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 1 2 3 5.

Higher scale value appears in: 6 7 8 9 10 11 12 13.



CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- Operating collimator controls to adjust collimation (most tasks listed above).
- 2. Using calipers to measure patient (most tasks listed above).
- 3. Adjusting, centering position of x-ray film in holder or cassette (most tasks listed above).
- 4. Operating controls to set focal-film distance, select exposure factors; positioning x-ray tube manually (most tasks listed above).
- 5. Placing, positioning non-infant patient's fingers, hands, or arms for radiography and using immobilization devices (Tasks 355, 356, 357, 517)
- 6. Placing, positioning non-infant patient's toes, feet, or legs for radiography and using immobilization devices (Tasks 358, 359, 360, 515)
- 7. Placing, positioning non-infant patient's torso and neck and using immobilization devices; using compression band if ordered (Tasks 361, 362, 363, 364, 374, 378, 379, 381, 382, 383, 384, 385, 386, 387, 389, 463, 465, 466, 467, 468, 512, 515, 517).
- 8. Placing, positioning patient's breasts and using pressure coné and/or other immobilitation devices (Task 268).
- 9: Placing positioning non-infant patient's head and using immobilization devices (Tasks 366, 367, 374).
- 10. Moving tabs holding small lead shot in place over breast masses to unpucker skin (Task 368).
- 11. Mounting tomography attachment to radiographic examination table (Tasks_374, 385).
- 12. Placing syringes containing contrast medium in appropriate Heating device or pressure injector (Tasks 378, 515).



Type of Objective Skill Factor III No. 5
Skill or Knowledge Cagegory Object Manipulation Skills Scale-Value 1.5

Content Continued

- 13: Handing sterile instruments to physician using sterile technique (Tasks, 379, 382, 512).
- 14. Inserting catheter or rectal tip of enema into rectum; Opening lumen of retention balloon catheter to drain; removing catheter or rectal tip of enema from rectum (Task 383).
- T5. Placing grid over pregnant patient's abderen and taping into position (Task 467).
- 16. Placing and securing Colcher-Sussman pelvime er in place between pregnant patient's thighs; adjusting scale as appropriate (Task 468).
- 17. Setting up, checking automatic pressure injection equipment; attaching tubing to syringes containing contrast medium (Tasks 512, 515).
- 18. Assisting with preparation or attachment of catheter(s), adaptors, puncture needles, syringes, IW bottles (Tasks 512, 515).
- 19. Loading automatic cassette changer with cassettes (Tasks 512, 515, 517).
- 20. Taping IV needle into place; immobilizing arm pad or arm board (Task 515).
- To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives

Same scale value appears in: 1 2 3 4.

Higher scale value appears in: 6.7 8 9 10 11 12 13.

CUBRICULUM OBJECTIVE SHEET					Page I of I
Type of Objectime Skil	1		Factor		6
Skill or Knowledge Category		Manipulation	Skills	Scale	Value <u> 3.5</u>
Occupation Patient Care		***		<u> </u>	Level 1
Refers to Task Code No(s) .:		•			<u> </u>
•	•				
•					\
Is there Cross Reference? .	Yes(x)	No() If y	es, see	footnote(s).	

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- Feeding a patient (Task '287). '.
- 2. In putting on fresh colostomy bag, cutting opening to fit stoma; attaching with adhesive sealer (Task 290).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 1 2 3 4 5.

Same scale value appears in: 7 8 9 10. Higher scale value appears in: 11 12 13.

CURRICULUM OBJECTIVE SHEET		<u> </u>	Page 1 01 1
Type of Objective Skill		Factor IV	No7
Skill or Knowledge Category	Object Manipulation	Skills	Scale Value 3.5
Occupation Patient Care Tec	hnician	•	Level 2
Refers to Task Code No(s) .:	156 182 185 243		
	_	U.	
			· · · · · · · · · · · · · · · · · · ·
Is there Cross Reference?	.Yes(X)No() 1	f yes, see foot	note(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Applying sterile gauze, pads, vaseline gauze to wound or burn using sterile techniques, forceps; applying tape; wrapping bandage; applying sling (Task 156).
- 2. Inserting suction catheter in tracheostomy; using catheter and controls to remove mucous from passageway; removing catheter (Task 182).
- 3. In checking oxygen equipment and administering oxygen, adjusting cylinder valve; connecting regulator; setting pressure and/or flow rate valve (Task 185).
- 4. Tying down hands, limbs, or body of patient needing restraining with gauze, foam pads, cloth tape, rolled sheets, special restraints; attaching restraints to bed, wheelchair, etc. (Task 243).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 1 2 3 4 5.

Same scale value appears in: 6 8 9 10 and levels & and 5...

Higher scale value appears in: 11.12 13.

CUERICULUM OBJECTIVE SHEET	I GAC I VI -
Type of Objective (Skill Factor VI	No. 8
Skill or Knowledge Category Object Manipulation Skills	"Scale Value 3.5
Occupation Quality: Assurance Aide	Level 1
Refers to Task Code No(s): 72 95 180 269 275 284 551 552	
Is there Cross Reference? Yes(X) No() If yes, see foots	note(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Handling ay film or Polaroid film appropriately at edges to avoid smudging, buckling, or leaving marks while loading x-ray film cassette (Task 72), loading Polaroid cassette (Task 269), making subtraction prints (Task 275), inserting dosimetric films into insert container for film badges (Task 551), or placing dosimetric or TLD samples and exposed film and TLD in container for processing (Task 552).
- 2. Cutting leading edge of roll film without cutting perforations to load roll film (Task 72).
- 3. Filling eyedropper with water, eyedropper with urine; dropping exact number of drops of water and urine into test tube containing clinitest tablet (Task, 95)
- 4. Filling test tube with blood from syringe by removing needle; expelling appropriate amount of blood into test tube slowly to avoid hemolyzing blood (Task 180).
- 5. Adjusting cylinder valve as appropriate in check of oxygen equipment (Task 284).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control-and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 1 2 3 4 5.

Same scale value appears in: 6 7 9 10 and levels 4 and 5.

Higher scale value appears in: 11 12 13.



Factors:

Level 1: Aide

Value Task Codes Ob. Nos.

296

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Scale

	•	•	Pagé 7 of 30
: Aide	Level 2: Tech	nnician	Level 3: Technologist
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Ob.Nos.	Task Codes	Ob, Nos.	Task Codes Ob.Nos.
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Table 5 (continued)

(abbreviated)

Skill or Knowledge Category

CURRICULUM OBJECTIVE SHEET	<u> </u>		Page 1 of 1
Type of Objective Skil	1	Factor VI	No9
Skill or Knowledge Category	Object Manipulation	Skills	Scale Value 3.5
Occupation Quality Assu	rance Technician		Level <u>2</u>
Refers to Task Code No(s) .:	.173 175 187 276 543	544 553	·
	• 1		
•		<u> </u>	

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- Spinning top in spinning top test of x-ray machine timers (Task 173). l.
- 2. Preparing and placing lead sheeting to mask cassette in penetrometer , . test of kVp calibration (Task 175).
- Placing wire mesh screen flat on tube-side surface of cassette for test of film-screen contact (Task 187).
- Making minor repairs of automatic film processor by unjamining x-ray film in processor, hifting out roller assembly, pulling out jammed film; cleaning, handling rollers with care; using hand tools to correct alignments, tighten bolts, screws, sprockets or make other adjustments (Task 276).
- 5. Handling x-ray film appropriately at edges to avoid smudging, buckling, leaving marks or causing static discharges while checking operation of film processor (Tasks 276,543), while determining exposure characteristics of x-ray and/or dosimetric films (Task 544), or disassembling dosimeters before processing (Task .553).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 1 2 3 4 5.

Same scale value appears in: 6 7 8 10 and levels 4 and 5.

Higher scale value appears in: 11 12 13.



 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective Skill
 Factor III No. 10

 Skill or Knowledge Category Object Manipulation Skills
 Scale Value 3.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 365 375 376 377 380 388 390 491 492 493 494 495 496

 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 513 514 516 518

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Placing, positioning infant or pediatric patient's fingers, hands or arms for radiography and using immobilization devices (Tasks 376, 493, 510).
- 2. Placing, positioning infant or pediatric patient's toes, feet or legs for radiography and using immobflization devices (Tasks 376, 377, 496, 510).
- 3. Placing, positioning infant, pediatric or adult patient's torso and neck, and using immobilization devices to obtain exact angulation and centering and/or maintain sterile field (Tasks 376, 380, 388, 390, 492, 494, 495, 498, 499, 500, 501, 502, 503, 506, 507, 508, 509, 510, 511, 512, 513, 514, 516, 518, 519, 526).
- 4. Placing, positioning infant, pediatric or adult patient's head, and using immobilization devices to obtain exact angulation and centering (Tasks 365, 375, 380, 491, 497, 504, 505, 506, 526).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appéars in: 1 2 3 4 5.

Same scale value appears in: 6 7 8 9 and levels 4 and 5.

Higher scale value appears in: 11 12 13.



CURRICULUM OBJECTIVE SHEET					Page 1'	of]
Type of Objective Skill		Factor	IV		11	
Skill or Knowledge Category	"Object Manipulation	Skills) Scale	Value	5.0
Occupation Patient Care	Technician			٠. ١	Level	2
Refers to Task Code No(s).:	18 33 65 133 296 299		. 4			
		•	•			
, 		·				•
Is there Cross Reference? .	Yes(X) $$ No() If	yes, see	footno	te(s).		

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

- 1. Using sterile needle with vacutainer or syringe to insert needle into vein and draw proper amount of blood from non-pediatric patient's vein (Task 18).
- 2. Using clamp to hold up suture stitches to be cut, and cutting sutures with appropriate scissors (Task 33).
- 3. Using sterile tweezers to pick up tissue fragments visible on sterile slide on which specimen material has been placed, or "teasing" tissue from brushes used in brush biopsy; and placing into tissue containers (Task 65).
- 4.4 Injecting medication subcutaneously or intramuscularly at the site selected by ejecting air, inserting needle, pulling back on syringe, checking that no blood appears, and injecting medication (Tasks 133, 299).
- 5. Inserting plastic oral airway or endotracheal tube as first aid procedure (Task 296).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 1 2 3 4 5 6 7 8 9 10.

Same scale value appears in: 12 and level 4 of patient care. Higher scale value appears in: 13.



CURRICULUM OBJECTIVE SHEET		Page	1 01 1
Type of Objective Skill	Factor VI	No12	
Skill or Knowledge Category Object Manipulation	Sk¶11s	Scale V∍lu	e 5.0
Occupation Quality Assurance Aide		Levé	1 1
Refers to Task Code No(s): 69			
	·		
Is there Cross Reference?Yes(X) No() If	yes, see footr	iote(s).	
		/1	
Content: A graduate of the program at this educa	tional level ;	nust be able	to

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects, with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

1. For automatic processing of roll film, inserting and threading leader film in and around roller assemblies; splicing leader film to exposed film end-to-end with tape while handling film so as not to mark or cause artifacts (Task 69).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 1 2 3 4 5 6 7 8 9 10.

Same scale value appears in: 11 and level 4 of patient care. - Higher scale value appears in: 13.



CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective Skill		Factor IV	No. <u>13</u>
Skill or Knowledge Category_		Skills	Scale Value 7.5
Occupation Patie	nt Care Technician		Lèvel 2
Refers to Task Code No(s).:	143 181		
• · · · · · · · · · · · · · · _ ·			<u>`</u>
Is there Cross Reference?	.Yes(X)No() If	yes, see footno	te(s)
, , , , , , , , , , , , , , , , , , ,		•	•

Content: A graduate of the program at this educational level must be able to achieve the degree of control and precision in the manipulation of objects with the fingers, hands, or limbs with the fineness of motion appropriate to achieving the standards set for manipulation of objects in the following activities:

1. Inserting balloon catheter into male or female urethra, maintaining sterile field (Tasks 143, 181).

To accomplish this, the student must be able to state what standards of precision must be achieved for each activity, and must be able to exercise the degree of control and precision necessary to achieve the standards.

<u>Cross Reference Footnotes</u>: See The Following Curriculum Objectives: Lower scale value appears in: 1 2 3 4 5 6 7 8 9 10 11 12.

CURRICULUM OBJECTIVE SHEET		,		Page 1	of <u>1</u>
Type of Objective Skill	Factor	IV	No.	_14_	
Skill or Knowledge Category Guiding or Steering	Skills		Scale	Value	1.5
Occupation Patient Care Aide		z -		Level	1
Refers to Task Code No(s): 287 302		•		• '	
	_				
		-	_		
Is there Cross Reference? Yes(X) No() If	yes, see	footno	te(s).	·	-,

Content: A graduate of the program at this educational level must be able to coordinate his or her perception of external stimuli which inform him or her of his or her position in order to control an object being moved over a predetermined pathway in the following activities so as to achieve the degree of precision necessary to accomplish the objective within an acceptable margin of error:

- 1. Wheeling cart to kitchen, and returning to patient with food tray on cart (Task 287).
- 2. Wheeling patient in wheelchair into position to make telephone call (Task 302).

To accomp sh this, the student must be able to state what external stimuli, must be attended to, what coordination is required, and what margin of error is allowable in the movement of the object to achieve the standards.

Cross Reference Footnotes: See the Following Curriculum Objectives: Same scale value appears in: 15 16 17.

Higher scale value appears in: 18 19.

1. Wheeling cart carrying food or supplies to appropriate location (Tasks 136, 288).

able margin of error:

To accomplish this, the student must be able to state what external stimuli must be attended to, what coordination is required, and what margin of error is allowable in the movement of the object to achieve the standards.

gree of precision necessary to accomplish the objective within an accept-

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 14 16 17.
Higher scale value appears in: 18 19.

CURRICULUM OBJECTIVE SHEET				I	Pa ge l of l
Type of Objective Skill		Factor	VI	No.	16.
Skill or Knowledge Category_	Guiding or Steering	Skills		Scale	Value 1.5
Occupation Ruality Assur-	ance Technician	_			Level 2
Refers to Task Code No(s).;	524				
				•	
	. •		•		
Te there Cross Reference?	Yes(X) No() If	1700 800	footno	tate	

Content: A graduate of the program at this educational level must be able to coordinate his or her perception of external stimuli which inform him or her of his or her position in order to control an object being moved over a predetermined pathway in the following activity so as to achieve the degree of precision necessary to accomplish the objective within an acceptable margin of error:

1. Wheeling or moving examination table or couch during maintenance cleaning of computerized transverse axial tomography equipment (Task 524).

To accomplish this; the student must be able to state what external stimuli must be attended to, what coordination is required, and what margin of error is allowable in the movement of the object to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 14 15 17.
Higher scale value appears in: 18 19.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Skill Factor III No. 17

Skill or Knowledge Category Guiding or Steering Skills Scale Value 1.6

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s).: 355 356 357 358 359 360 361 362 363 364 365 366 367

368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387

388 389 390 463 465 466 467 468 491 492 493 494 495 496 499 500 (*continued below)

Is there Cross Reference? ... Yes(') ... No(') If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to coordinate his of her perception of external stimuli which inform him or her of his or her position in order to control an object being moved over a predetermined pathway in the following activities so as to achieve the degree of precision necessary to accomplish the objective within an acceptable margin of error:

- 1. Wheeling patient on Tretcher or in wheelchair and positioning next to radiographic examination table (all tasks listed above except Tasks 369, 370, 371, 372, 373 and 463).
- 2. Transporting mobile x-ray equipment from department to bedside or operating room positions, and/or wheeling PEG chair or serial cassette changer into position for radiographic examination (Tasks 369, 370, 372, 373, 463, 504, 505, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519).

To accomplish this, the student must be able to state what texternal stimuli must be attended to, what coordination is required, and what margin of error is allowable in the movement of the object to achieve the standards.

Cross Reference Footnotes: See The Following Garriculum Objectives: Same scale value appears in: 14 15 16.
Higher scale value appears in: 18 19.

* 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.



CURRICULUM OBJECTIVE	SHEET	\$	·		•	Page	1 of 1
Type of Objective	Skill	•		Factor	IV		18
Skill or Knowledge Ca	ategory G	uidi n g o	r Steering	Skills		Scale Val	ue 3.0
Occupation Paties						, ; Lev	el <u>1</u>
Refers to Task Code	No(s).: 1	90	•			<u>. </u>	<u> </u>
	<u> </u>		•		•	<u> </u>	
	<u> </u>	1					

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to coordinate his or her perception of external stimuli which inform him or her of his or her position in order to control an object being moved over a predetermine pathway in the following activity so as to achieve the degree of precision necessary to accomplish the objective within an acceptable margin of error

Wheeling patient on stretcher or in wheelchair to designated location anywhere in hospital to which ient is to be transported (Task 190).

To accomplish this, the student must be able to state what external stimuli must be attended to, what coordination is required, and what margin of error is allowable in the movement of the object to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale valué appears in: 14 15 16 17.

Same scale value appears in: 19.



CURRICULUM OBJECTIVE SHEET				,	,	Page 1	of 1
Type of Objective - Skill			Factor	IV	No.	19	
Skill or Knowledge Category-	Guiding or	Steering	Skills	~ .	Scale	Value	3.0
Occupation Patient Care						Level	_ 2
Refers to Task Code No(s) .:	182 185 .			6		•	
•						-	

Is there Cross Reference? ... Yes(X) ... No(.) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to coordinate his or her perception of external stimuli which inform him or her of his or her position in order to control an object being moved over a predetermined pathway in the following activities so as to achieve the degree of precision necessary to accomplish the objective within an acceptable margin of error:

1. Wheeling patient in stretcher or wheelchair into position to receive suction, gastric lavage or oxygen, taking care that patient is not jostled (Tasks 182, 185)...

To accomplish this, the student must be able to state what external stimuli must be attended to, what coordination is required, and what margin of eraror is allowable in the movement of the object to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 14 15 16 17:

Same scale value appears in: 18 and level 4 of patient care



CURRICULUM OBJECTIVE SHEET	<u> </u>	Page I	1 10
Type of Objective . Skill Factor	IV No	20	•
Skill or Knowledge Category Human Interaction Skills '	Sca	le Value	1.0
Occupation Patient Care Aide :		L ev el	<u>1·,</u>
Refers to Task Code No(s) .: 166 190 199 278 279 281 291		· ·	
		<i>y</i>	•
Is there Cross Reference? Yes(X) No() If yes, see f	ootnot e (s).	

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Asking, checking patient's identity against requisition sheet name; asking co-worker in uncontaminated area to hand in items to isolation unit area (Task 166).
- 2. Helping patient to or from bed, wheelchair or stretcher; asking coworker to assist (Task 190).
- 3. Assisting patient to remove clothes; questioning patient or accompanying adult about whether there are any reasons that oral thermometer may not be used to take temperature; helping patient to relax; instructing patient in what to do as performer takes vital signs (Task 199); or so that performer can take oral temperature (Task 291).
- 4. Telephoning wards or floors and finding out why patients have not arrived in department for scheduled examination or procedure; speaking to ward or floor supervisor and requesting that recurrences of non-arrival of patients be avoided in the future (Task 278).
- 5. Informing appropriate staff when it is time to prepare patients for transportation to department for procedure; determining reasons if patient will not appear (Task 379).
- 6. Calling ward and explaining when wrong patient has been sent for procedure; obtaining missing information to be entered on patient's treatment and medication check lists by calling ward or asking patient as appropriate (Task 281).

To accomplish this, the student mest be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other," in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Featnotes: See The Following Curriculum Objectives: Same scale value appears in: 21 22 23 24 25.

Higher scale value appears in: 26 27 28 29 30 31 32 33 34 36 36.



CURRICULUM OBJECTIVE SHEET				rage: 1 or 1
Type of Objective Skill		Factor	IV . No.	21
Skill or Knowledge Category	Human Interaction	Skills	cale	Value 1.0
Occupation Patient Care				Level 2
Refers to Task Code No(s) .:	65		· · · · · · · · · · · · · · · · · · ·	
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. Te there Cross Reference?	Vec(Y) No() T	f 1100 000	footpote(s)	•

Content: A graduate of the program at this educational level must be able to exercise sensitiving to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

1. Discussing timing and what is involved in procedure to obtain extravascular body fluids, washings, cell, and/or tissue biopsies with the physician who will obtain specimen(s) in order to be ready to prepare them for transportation to laboratory (Task 65).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 20 22 23 24 25.

Higher scale value appears in: 26 27 28 29 30 3 32 33 34 35 36.



CURRICULUM OBJECTIVE SHEET

Page 1 of 2

Type of Objective Skill Factor VI No. 22

Skill or Knowledge Category Human Interaction Skills Scale Value 1.0

Occupation Quality Assurance Aide Level 1

Refers to Task Code No(s): 8 69 70 71 72 79 80 95 134 135 136 137 163 164 180

184 227 260 267 269 274 275 284 285 286 288 297 300 304 354 552

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Reporting problems with x-ray or other equipment to appropriate staff member or service organization (Tasks 8, 284).
- 2. Reporting missing items to staff member or distributor (Tasks 136, 184, 284, 285, 304).
- 3. Informing appropriate staff member that processed radiographs are on view boxes, or subtraction prints are ready to be evaluated, or presenting personally (Tasks 69, 71, 275).
- 4. Informing co-worker when equipment, contrast medium, procedure tray, or labels, are ready for use (Tasks, 70, 79, 80, 164).
- 5. Obtaining materials, supplies, or records, from co-worker (Tasks 267, 274, 286, 354).
- 6. Questioning co-worker or appropriate staff member to obtain information needed for records (Task 134).
- 7. Bringing or giving x-ray film loaded in proper holder to co-worker (Tasks 72, 269), specimen to co-worker in laboratory (Task 137), record form to co-worker or physician for check or signature (Tasks 163, 288), prepared hypodermic syringe for injection to staff member or physician and reporting amount of regulated drug left over (Task 260), or computer control card to staff member (Task 297).
- 8. Requesting co-worker to obtain urine sample from patient (Task 95), wash equipment (Task 135), fill out lab slips (Task 137), check supplies and report missing items (Task 227), test computer control card (Task 297), deliver records (Task 300).
- 9. Standing by to receive blood sample as it is being obtained by staff member (Task 180).
- 10. Plecting and distributing dosimetric inserts or badges from staff and providing replacements (Task 552).

CURRICULUM OBJECTI	VE SHEET (continued)				Page 2	of 2
Type of Objective	. Skill		Factor	VI	_ No.	22	
Skill or Knowledge	Cagegory	Human Interaction	Skills		Scale	Value _	1.0
					-		

Content Continued

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 20 21 23 24 25.

Higher scale value appears in: 26 27 28 29 30 31 32 33 34 35 36.



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Page 1 of

CURRICULUM OBJECTIVE SHEET VI Type of Objective Ski 11 Factor No. Skill ór Knowledge Category Human Interaction Skills Scale Value 1.0 Level 2 Occupation <u>Quality Assurance Technician</u>

Refers to Task Code No(s): 78 173 178 187 276 523 524 525 527 534 536 538 553 554 556 ·

Is there Cross Reference? ... Yes(X) No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Requesting that co-worker or staff member sign record form (Task 78)
- Informing repair service staff of problem with equipment or supplies. and relevant information, and/or informing appropriate staff that unit or materials are not to be used until repaired (Tasks 173, 178, 187, 276, 523, 525, 534, 536, 538, 556).
- Informing co-worker of radiographs that were spoiled by being jammed in processor or in machine when it was opened (Task 276).
- Informing co-worker or staff member of supplies that should be replenished or replaced (Task 524).
- Explaining to physician or co-worker when information is missing on request to retrieve computerized transverse axial scans, such as improper authorization, incomplete identification (Task 527).
- Reporting unusually high personnel dosimeter exposure readings to aptpropriate supervisor(s) (Task 553); and/or informing the individual(s) involved; notifying or arranging for personal interviews and reports (Task 554).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other,", and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 20 21, 22 24 25.

Higher scale value appears in: 26 27 28 29 30 31 32 33 34 35 36.



CURRICULUM UDJECTIVE SHEET				rage 1 of 1
Type of Objective Skill		Factor	·III	No24
Skill or Knowledge Category_	Human Interaction	Skills		Scale Value 1.0
Occupation Radiologic Te	chnologist			Level 3
Refers to Task Code No(s) .:	372 373 464		,	
			_	
Ic there Cross Reference?	Vec(v) No() I	A VAC CAA	footno	te(c)

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Discussing whether explosive gases will be present in operating room, timing of procedure, specific precautions to take in dealing with patient, special equipment and logistics in connection with operating room radiography procedures (Tasks 272, 273).
- Reporting to radiologist in charge possible contraindications to fluoroscopic procedure or difficulties such as missing information, improper authorization, equipment problems; and noting any special orders or change in procedure; discussing sequence and timing of procedure (Task 464).
- Explaining need for radiation safety shielding and garments, such as leaded apron, curtain, gonadal shielding to patient and anyone to remain in room during radiation exposure (Tasks 372, 373, 464).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the. given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which eagendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 20 21 22 23 25.

Higher scale value appears in: 26 27 28 29 30 31 32 33,34 35 36.

CURRICULUM OBJECTIVE SHEET			rage 1 0	LL
Type of Objective Skill	Factor	A	No25	
Skill or Knowledge Category Human Interaction	Skills		Scale Value 1	.0.
Occupation Administrative Technologist			Level	3
Refers to Task Code No(s) .: 132 272 277				<u> </u>
<u> </u>				
		1		
Is there Cross Reference? Yes(X) No() If	ye s, see	footn	ote(s).	

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

Requesting repair or replacement of equipment, supplies, or services of another department by calling on telephone (Task 132).

- 2. Notifying appropriate staff when it is time to ready and transport patients for procedures (Task 272).
- Requesting information on patient arrivals from appropriate staff members (Task 277).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 20 21 22 23 24. Higher scale value appears in: 26 27 28 29 30 31 32 33 34 35 36.



 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective Skill / Skill or Knowledge Category Human Interaction Skills
 Scale Value 3.0

 Occupation Patient Care Aide
 Level 1

 Refers to Task Code No(s): 74 98 113 155 193 262 271 282 283 287 289 292 295

 301 302 303 520 521
 301 302 303 520 521

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Explaining to patient or family member what must be done or not done at home before patient comes for next appointment for radiography; checking that this is understood; explaining reasons, nature of examination, how to prepare (Task 74).
- 2. Encouraging pediatric patient to urinate (Task 98).
- Giving comfort and moral support to patient; explaining about institusion (Task 113).
- 4. Explaining to patient how to provide urine specimen, or to family member how to obtain specimen from child (Task 155).
- 5. Questioning patient to learn whether pre-examination procedures have been carried out (Task 193).
- 6. Explaining ECG procedures to patient or accompanying adult (Tasks 262, 520).
- 7. Without alarming patient with irregular ECG reading, making patient comfortable; noting whether patient is in distress; notifying appropriate physician (Task 271).
- 8. Escorting adult out-patients to and/or from dressing, waiting, or procedure rooms; explaining what clothing to remove; assisting if needed (Task 282).
- Explaining to patient what will be done if dressing needs changing or reinforcing (Task 283), or puncture site requires manual pressure (Task 521).
- 10. Judging whether patient needs to be fed; feeding patient or assisting (Task 287).
- 11. Bottle feeding an infant or neonate (Task 289).
- 12. Encouraging pediatric patient to evacuate (Task 292).



Page 2 of 2

Type of Objective Skill
Skill or Knowledge Cagegory Human Interaction Sk

Factor IV No. 26

Scale Value 3.0

Content, Continued

- 13. Asking questions, raising issues, participating in discussions at meeting of nursing personnel in x-ray department (Task 295).
 - 14. Diapering a baby (Task 301).
 - 15. Determining from patient contents of message to be delivered by performer or information to be obtained; explaining why medical information cannot be relayed; placing call; relaying message; relaying return message (Task 802).
 - 16. Explaining to patient how to note time and amount of urine passed, or feces evacuated (Task 303).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 20 21 22 23 24 25.

Same scale value appears in: 27 28 29 30 31. Higher scale value appears in: 32 33 34 35 36.



CURRICULUM OBJECTIVE SHEETPage 1 of 1Type of ObjectiveSVillFactorIVNo.27Skill or Knowledge CategoryHuman Interaction SkillsScale Value 3.0OccupationPatient Care TechnicianLevel 2Refers to Task Code No(s):18 33 133 156 198 280,298 299 308 522

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- l. Explaining to patient what will be done to draw blood sample; taking sample (Task 18).
- 2. Explaining to patient and any accompanying family member what will be done in removal of sutures; explaining how to take any medication prescribed (Task 33).
- 3. Explaining to prient name and purpose of medication to be taken orally or injected and essible side effects; asking about allergies; injecting or administering medication (Tasks 133, 198, 298, 299).
- 4. Explaining what will be done in cleansing and dressing of wound, burn, or opening for catheter, or in applying pressure dressing (Tasks 156,522).
- 5. Discussing possible causes for unusually high radiation exposure reading of performer's own radiation detection dosimeter and possible transfer to other work (Task 280).
- 6. Explaining to patient-what will be done to monitor-patient's ECG (Task 308).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25.

Lower scale value appears in: 20 21 22 23 24 25. Same scale value appears in: 26 28 29 30 31.

Higher scale value appears in: 32 33 34 35 36.



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Type of Objective Skil		1.1	Factor	VI		
Skill or Knowledge Category	Human In	teraction	Skills		Scale Value	3.0.
Occupation Quality Assu	rance Aide		•		Level	1
Refers to Task Code No(s) .:	145 147 19	92	4	•	· · · · · · · · · · · · · · · · · · ·	
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Content: A graduate of the program at this educational level mustibe able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- Asking co-worker's opinions about condition of equipment that appears defective or damaged (Task 145).
- 2. Noting, investigating request for change in technique chart for x-ray machine or expressed dissatisfaction with radiographs at current technical exposure settings; informing appropriate staff when changes are made (Task 147).
- 3. Discussing contrast and density control settings available in relation to expressed dissatisfaction with image quality of xeroradiography machine (Task 192).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25.

Same scale value appears in: 26 27 29 30 31. Higher scale value appears in: 32 33 34 35 36.



CURRICULUM OBJECTIVE SHEET

Factor VI Type of Objective Skill No. Skill or Knowledge Category Human Interaction Skills Scale Value 3.0 Occupation / Quality Assurance Technician Refers to Task Code No(s): 175 280 529 530 531 532 533 535 537 539 540 <u>543</u> 544 ·545 548 549 550

Is there Cross Reference? ... Yes(X) ... No If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently percentive of the relevant characteristics or state of being of other people in the following activities to be able attention to feedback in interaction, and adjust his of her behavior appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- Discussing with radiologist changes in kilovoltage settings to compensate for declining density in radiographs; obtaining instructions or opiaions (Task 175).
- Discussing possible causes for invalually high radiation exposure reading of performer's own radiation detection dosimeter and possible transfer to other work (Task 280),
- iscussing results of test of x-ray equipment with supervisor and/or radiologist in tharge, including effect of problem or deviations from acceptable standards on patient exposure, diagnostic reliability, legal requirements (Tasks 529, 530, 531, 532, 533, 535, 537, 539, 540, 548, 549):
- Suggesting set-up and check procedures to staff using x-ray film processors, and discussing with appropriate staff member(s) (Task 543).
- Discussing results of test to determine exposure characteristics of ray films with appropriate staff members (Task 544)
- Discussing results of patient exposure rate monitoring and radiation protection survey with supervisor or radiologist such as effect of deviations from acceptable standards on exposure levels, diagnostic reliability, safety requirements (Tasks 545, 550).

To accomplish this, the student must be able to demonstrate sufficient. awareness of what the relevant characterisits are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback, from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which angendered the interaction, and do this at the quality standard set.

Cross Parence Footnotes:, See The Following Curriculum Objectives:

Lower value appears in: 20 21 22 23 24 25. Same see value appears in: 27 28 30 31. Higher scale value appears in: 32 33 34 35 36.

CURRICULUM OBJECTIVE SHEET	· 5- ,	<u></u>		Page 1 of 1
Type of Objective Skil	1	Factor	II No.	30 "
Skill for Knowledge Category		on Skills	Scale	Value 3.0
Occupation Radiologic T	echnologist			Level 3
Refers to Task Code No(s).:	81 280 353 369 3	٠ <u>٠٠ : 371 ، 70</u>	79 5.	
•	4 Ob	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	<u></u>
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Is there Cross Reference? ..., Yes(X) ... No() If yes, see footnote(s).

Content: A raduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. In reviewing the technical quality of "plain film" radiographs taken by co-worker, discussing whereabouts of missing views, suggesting alternative positioning, align opinions of supervisor or radiologist about diagnostic quality and need for "retakes," suggesting additional views to obtain more complete information (Task 81).
- 2. Discussing possible causes for unusually high radiation exposure reading of performer's own radiation detection dosimeter and possible transfer to other work (Task 280).
- Asking questions, raising issues, participating in discussions at meeting of diagnostic x-ray department technologists (Task 353).
- 4. Greeting patient to have radiographic examination; explaining what will be involved in the procedure; indicating what cooperation will be asked of patient; answering patient's non-medical questions honestly; attempting to reassure patient and develop confidence; treating patient with dignity and concern regardless of patient's behavior (in tasks with limited patient contact) (Tasks 369, 370, 371).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feed act from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives Cower scale value appears in: 20 21 22 23 24 25.

Same scale value appears in: 26 27 28 29 31.

Higher scale value appears in: 32 33 34 35 36.



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CURRICULUM OBJECTIVE SHEET

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Type of Objective	Skill		. %	•	Factor	r	A ·	No.	31	
Skill or Knowledge	Category	Human	Interact	tion	Skills	*	•	Scale	Value_	3.0
Occupation Adj	pinistřatíve	Techno	logist			,		(Leve 1	3.
Refers to Task Cod	de No(s).:	76 128	129 131	165	186	, ·	٠ _:		<u>· · · </u>	<u> </u>
		_		2,			-			

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to ecomplish the purpose of the tasks in which the interactions occur. The activities include:

- 1. Asking staff about items they wish to order or reorder, or receiving requests for items from staff and asking for needed information (Tasks 76, 129).
- 2. Asking co-workers whether anyone has used a narcotic drug without signing for it (Task 128).
- 3. Asking supervisor to request additional help to cover for absent staff members (Task 131).
- 4. Informing supervisor of excessive lateness, absenteeism or abuse of breaks on the part of staff members (Task 165).
- 5. In providing orientation to a new staff member, presenting information, answering questions, and eliciting responses to judge whether the individual comprehends what is presented (Task 186).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25.

Same scale value appears in: 26 27 28 29 30.

Higher scale value appears in: 32 33 34 35 36...

CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor IV No. 32

Skill or Knowledge Category Human Interaction Skills Scale Value 5.0

Occupation Patient Care Aide Level 1

Refers to Task Code No(s).: 73 138 153 290 490

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Reassuring patient and/or accompanying adult about procedures; explaining what will happen; helping to calm or comfort patient and/or adult by being sympathetic and behaving in an interested and professional manner (Tasks 73, 153, 290, 490).
- 2. Noting, while interacting with patient, conditions, symptoms, or behavior which should be brought to physician's attention; noting whether, in conversation, patient mentions symptoms, or worries, or concerns related to health which should be told to physician to aid in caring for patient (Task 138).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25 26 27 28 29 30 31. Same scale value appears in: 33 34 35.

Higher scale value appears in: 36.

CURRICULUM OBJECTIVE SHE	ET	•				Pi Ca	OI 1
Type of Objective S	kill	,	Factor	IV		3.	
Skill or Knowledge Catego	ory Human Inter	action	Skills	• • • • • • • • • • • • • • • • • • • •	Şçale	Value	5.0
	are Technician		<u> </u>			Level	. 2
Refers to Task Code No (s): <u>143 181 182 1</u>	85 243		·			
· <u>· · · · · · · · · · · · · · · · · · </u>							
•	<i>y</i> ,	•		<u>·</u>	• '	<u> </u>	
Is there Cross Reference	? Yes (X) No	() If	yes, see	footno	te(s).	•	

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. In catheterization of male or female urethra, explaining what will be done and what patient will experience; reassuring, especially pediatric patient (Task 143, 181).
- 2. In clearing tracheostomy passage with suction machine, reassuring or comforting patient during process; determining whether passage has been cleared (Task 182).
- 3. In administering oxygen, observing patient to make sure patient is responding; reassuring patient; helping to relieve coughing; keeping patient relaxed (Task 185).
- 4. Trying to reassure and calm a patient who is being restrained (Task 243).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other," in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25 26 27 28 29 30 31. Same scale value appears in: 32 34 35.

Higher scale value appears in: 36.



CURRICULUM OBJECTIVE SHEET

Type of Objective . Skill . Human Interaction Skills III No.

Factor

Skill or Knowledge Category___

Scale Value 5.0

Occupation : Radiologic Technologist, Refers to Task Code No(s).: 355 356 357 358 359 360 361 362 363 364 365 366 367 368 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 465 466 467 468 491 492 493 494 495 496 497 498 499 500 501 502 (*continued below)

Is there Cross Reference? ... Yes(X) ... No(). If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

- 1. Explaining to patient and/or accompanying family member what will beinvolved in the procedure; indicating the types of positions the pa-. tient will be asked to assume and the cooperation that will be asked of the patient; answering patient's non-medical questions honestly; attempting to reassure patient and develop confidence (all tasks listed above).
- Treating patient with dignity and concern regardless of patient's behavior, remaining aware that patient may be frightened and or in pain; if patient is in gown, exposing patient's body only when necessary for examination procedure; in palpating for topographic landmarks avoiding embarassing patient (all tasks listed above).
- 3. * Explaining reasons for use of protective shielding; questioning female patient of child bearing age regarding possible pregnancy (all, tasks. listed above as appropriate).
- Questioning patient or staff member on what movement is possible for patient; asking about injury or pain (all tasks listed above).
- Questioning patient or accompanying adult about patient's allergies adverse reactions to shellfish; explaining what side effects may be felt from contrast medium, such as possible nausea, flushing, choking sensation (ali tasks involving iodine-based contrast media)/
- Obtaining information missing from requisition, and/or discussing alternative patient positions, care of patient, performer's suggestions; raising and discussing possible contraindications to procedure; and/or discussing with radiologist sequence of procedure, timing, and signals to use in procedure (all tasks listed above as appropriate).
- Teaching or rehearsing patient in the positions to take, breath control required, maneuvers, or how to behave with equipment that involves mov-.ing parts, such as tilt table, tomography, cassette changer, automatic injector (all tasks as appropriate).



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CHRRICHLIM	ORIFCTIVE	SHEET ((continued)
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Type of Objective Skill Factor III No. 34
Skill or Knowledge Cagegory Human Interaction Skills Scale Value 5.0

Content Continued

- 8. Observing patient for signs of pain, adverse reaction to positioning, use of contrast, signs of respiratory distress, fainting, loss of consciousness during procedure; checking that patient will not fall off table, that any IV or indwelling catheter is in place; comforting patient (all tasks as appropriate).
- 9. Explaining effects of instillation of contrast medium in promoting coughing reflex in bronchography; explaining why and when patient needs to exert effort to control coughing; helping patient practice shallow breathing or panting to suppress coughing; reassuring if patient has fears about having air passages entered by catheter or contrast material (Task 378).
- 10. Describing how masoenteric tube will be inserted, how to assist in passing the tube; reassuring patient that nausea may be a normal occurrence; if patient experiences nausea, reassuring (Task 382).
- 11. Explaining possible cramping response to barium enema; instructing patient in how to indicate pain, how to hold enema; telling when evacuation will be possible, how evacuation will be done; questioning patient about ability to retain enema; assuring patient about privacy and the assistance that will be available to patient to avoid embarrassment if patient cannot retain enema; during procedure, encouraging patient to retain enema (Tasks 383, 500).
- 12. Explaining the time elapses during examination phases, the possible vomiting reaction to contrast medium, that this is normal, that performer will assist patient (Tasks 385, 387, 388, 389, 465).
- 13. If voiding or evacuation will be involved in examination, trying to relieve patient's embarrassment; assuring patient of privacy, closed door, exclusion of unauthorized staff, use of gown or drape (Tasks 390, 500).
- 14. Encouraging patient to inform urologist of any discomfort or pain in the back or loins when filling is underway in retrograde pyelography—as a guide for urologist to judge amount of contrast to use (Task 463).
- 15. Reinforcing physician's explanation of aftereffects of procedure and the symptoms patient is to report to clinician (Task 465).
- 16. Checking with pregnant patient on regularity of any contractions; having patient practice noting when fetus is quiet; making patient as comfortable as possible; if patient is in labor, helping patient to relax, breathe, or refrain from bearing down as appropriate to stage of labor (Tasks 466, 468).

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CURRICULUM OBJECTIVE SHEET (continued)

Page 3 of 3

Type of Objective Skill Factor III No. 34,
Skill or Knowledge Cagegory Human Interaction Skills Scale Value 5.0.

Content Continued

17. Attempting to keep pediatric patient calm or to relax a child who is unruly by developing a warm interaction with patient; holding patient; speaking in calm, gentle, voice; communicating as appropriate to patient's age, level of development or coherence; judging whether to use pacifier, toy, enlist help of staff or family member or to report that patient cannot be calmed (Tasks 375, 376, 377, 380, 388, 390, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 053, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 526).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25 26 27 28 29 30 31. Same scale value appears in: 32 33 35 and levels 4 and 5. Higher scale value appears in: 36.

* 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.



CURRICULUM OBJECTIVE SHEET		Page 1	<u>of 1</u>
Type of ObjectiveSkill	, Factor A	No35	
Skill or Knowledge Category Human In	teraction Skills	Scale Value	5.0
Occupation Administrative Technologis	t	Levėl	_ 3
Refers to Task Code No(s): 293			,
1. 1.5.5		,	7
To those Course D C - to O 17 ()	N. () 7C		

Is there Cross Reference? ... Yes(χ) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

1. At meeting with supervisor, discussing performer's function or duties, or reviewing an evaluation of own work, or raising own problems; participating in discussion about what to do about problems, preferences about work, training, problems with own subordinates (if any) (Task 293).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behavior to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 20 21 22 23 24 25 26 27 28 29 30 31. Same scale value appears in: 32 33 34 and level 4.

Higher scale value appears in: 36:



Type of Objective Skill Factor IV No. 36
Skill or Knowledge Category Human Interaction Skills Scale Value 7.0
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 296

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to exercise sensitivity to others, and be sufficiently perceptive of the relevant characteristics or state of being of other people in the following activities to be able to pay attention to feedback in interaction, and adjust his or her behavior as appropriate to accomplish the purpose of the tasks in which the interactions occur. These activities include:

Determining from co-workers and observation of patient whether first aid or emergency care is required by asking questions, examining patient; directing co-workers to assist in emergency procedures; evaluating patient's response; reporting to physician when he or she arrives (Task 296).

To accomplish this, the student must be able to demonstrate sufficient awareness of what the relevant characteristics are of the "other" in the given situation, must be able to demonstrate sufficient perception of the feedback from the "other," and must be able to indicate what the proper adjustment must be in his or her behaivor to accomplish the activities which engendered the interaction, and do this at the quality standard set.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35.
Same scale value appears in level 4 of patient care.



CURRÍCULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective > Skill	Factor IV	No37
Skill or Knowledge, Category Leadership Skills		Scale Value 1.0
Occupation Patient Care Technician	·	Level 2
Refers to Task Code Na(s) 4 33		
		<u> </u>
Is there Cross Reference? Yes(X) No() I	f yes, see foot	note(s).

Content: A graduate of the program at this educational level must be able to indicate the extent to which he or she is called on to provide leadership to subordinates (in line relation or de facto) so as to influence their work behavior, in order to accomplish work objectives such as the following:

1. Delegating all or part of procedure to remove patient's sutures; explaining what has to be done to staff who will carry out all or part of procedure (Task 33).

To accomplish this, the student must be able to state what power he or she has over the subordinates' conditions of employment (hiring, firing, promotions, raises, transfers, overtime, special privileges) in this situation; and icate how less leadership is needed the greater the power; and state what can be done to reduce or increase the need for leadership.

The student must be able to state what channels of communication exist for giving orders in this situation, for receiving or giving information, for the evaluation of and for exercising discipline over the subordinates; indicate how less leadership is needed the more precisely known and formalized these channels are; and state what can be done to reduce or increase the need for leadership.

The student must be able to state the degree to which the tasks of subordinates which are to be accomplished are clearly defined and understood by the subordinates in this situation; indicate how less leadership is needed the clearer the subordinates own tasks are to them; and state what can be done to reduce or increase the need for leadership.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 38 39.
Higher scale value appears in: 40 41.



CURRICULUM OBJECTIVE SHEET				rage I of	<u>. I</u>
Type of Objective Skill	<u> </u>	Factor		38	
Skill or Knowledge Category			Scale	.Value 1	.0
Occupation Quality Assur	rance Aide	-		Level	Γ
Refers to Task Code No(s) .:	354		·	•	
	-	-		•	
Is there Cross Reference?	Yes(X)No() If	ye s, see	fo otnote(s)		

Content: A graduate of the program at this educational level must be able to indicate the extent to which he or she is called on to provide leadership to subordinates (in line relation or de facto) so as to influence their work behavior, in order to accomplish work objectives such as the following:

1. Deciding whether to send staff member to obtain documents; giving instructions or information on what is needed to person who will be sent (Task 354).

To accomplish this, the student must be able to state what power he or she has over the subordinates' conditions of employment (hiring, firing, promotions, raises, transfers, overtime, special privileges) in this situation; indicate how less leadership is needed the greater the power; and state what can be done to reduce or increase the need for leadership.

The student must be able to state what channels of communication exist for giving orders in this situation, for receiving or giving information, for the evaluation of and for exercising discipline over the subordinates; indicate how less leadership is needed the more precisely known and formalized these channels are; and state what can be done to reduce or increase the need for leadership.

The student must be able to state the degree to which the tasks of subordinates which are to be accomplished are clearly defined and understood by the subordinates in this situation; indicate how less leadership is needed the clearer the subordinates' own tasks are to them; and state what can be done to reduce or increase the need for leadership.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 37 39. Higher scale value appears in: 40 41.



CURRICULAM OBJECTIVE SHEET		·	Page 1 of 1
Type of Objective Skill	• •	Factor A	No. 39
Skill or Knowledge Category	Leadership Skills		Scale Value 1.0
Occupation Administrative	Technologist	<u> </u>	Level 3
Refers to Task Code No(s).:	186 272 294	· · · · · · · · · · · · · · · · · · ·	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

<u>Content</u>: A graduate of the program at this educational level must be able to indicate the extent to which he or she is called on to provide leadership to subordinates (in line relation or <u>de facto</u>) so as to influence their work behavior, in order to accomplish work objectives such as the following:

1. Describing the procedures covered by the department that are relevant to new staff member(s); eliciting comments or questions to determine whether new staff comprehend (Task 186).

Notifying staff when it is time to have them notify appropriate personnel to prepare and transport patients to department (Task 272).

3. Selecting staff member to send to transport patient, obtain items, or assist in a procedure; informing staff member of what is needed or what is to be done (Task 294).

To accomplish this, the student must be able to state what power he or she has over the subordinates' conditions of employment (hiring, firing, promotions, raises, transfers, overtime, special privileges) in this situation; indicate how less leadership is needed the greater the power; and state what can be done to reduce or increase the need for leadership.

The student must be able to state what channels of communication exist for giving orders in this situation, for receiving or giving information, for the evaluation of and for exercising discipline over the subordinates; indicate how less leadership is needed the more precisely known and formalized these channels are; and state what can be done to reduce or increase the need for leadership.

The student must be able to state the degree to which the tasks of subordinates which are to be accomplished are clearly defined and understood by the subordinates in this situation; indicate how less leadership is needed the clearer the subordinates' own tasks are to them; and state what can be done to reduce or increase the need for leadership.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 37 38.

Higher scale value appears in: 40 41.

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CURRICULUM OBJECTIVE SHEET				Page 1 of 1
Type of Objective Skill		Factor	IV	No. 40
Skill or Knowledge Category	Leadership Skills	· 3		Scale Value 4.5
Occupation Patient Care	Technician		•	Level <u>2</u> '
Refers to Task Code No(s).:	296		•	
		/	•	,

To there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to indicate the extent to which he or she is called on to provide leadership to subordinates (in line relation or de facto) so as to influence their work bahavior, in order to accomplish work objectives such as the following:

1. Deciding whether to ask staff member to help with an emergency first aid procedure or to bring or replace supplies; ordering what is needed and directing staff member (Task 296).

To accomplish this, the student must be able to state what power he or she has over the subordinates' conditions of employment (hiring, firing, promotions, raises, transfers, overtime, special privilegés) in this situation; indicate how less leadership is needed the greater the power; and state what can be done to reduce or increase the need for leadership.

The student must be able to state what channels of communication exist for giving orders in this situation, for receiving or giving information, for the evaluation of and for exercising discipline over the subordinates; indicate how less leadership is needed the more precisely known and formalized these channels are; and state what can be done to reduce or increase the need for leadership.

The student must be able to state the degree to which the tasks of subordinates which are to be accomplished are clearly defined and understood by the subordinates in this situation; indicate how less leadership is needed the clearer the subordinates own tasks are to them; and state what can be done to reduce or increase the need for leadership.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 37 38 39.

Same scale value appears in: 41 and level 4.



CURRICULUM OBJECTIV	E SHEET	·			Pa	AS T (<u> </u>
Type of Objective	Skill ^v	· · · · · · · · · · · · · · · · · · ·	Factor.	A	No.	41.	
Skill or Knowledge	Category: Lead	lership Skills.		4	Scale	alue_	4.5
.Ocçupation <u>A</u> dmi	nistrative Tec	hnologist			L	evel .	3
Refers to Task Code	No(s): 131		•	<u>, Y </u>			<u>`</u>
		,				. 	<u> </u>
			· A :				
		'		_		-	

Is there Cross Reference? ... Yes(X) ... No() If yes see footnote(s).

indicate the extent to which he or she is called on to provide leadership to subordinates (in line relation or de facto) so as to influence their work behavior, in order to accomplish work objectives such as the following:

1. Obtaining staff (preferences on work, vacation, days off, lunch and break time preferences; assigning and informing staff of scheduled assignments; making reassignments as needed (Task 131).

To accomplish this, the student must be able to state what power he or she has over the subordinates' conditions of employment (hiring, firing, promotions, raises, transfers, overtime, special privileges) in this situation; indicate how less leadership is needed the greater the power; and state what can be done to reduce or increase the need for leadership.

The student must be able to state what channels of communication exist for giving orders in this situation, for receiving or giving information, for the evaluation of and for exercising discipline over the subordinates; indicate how less leadership is needed the more precisely known and formalized these channels are; and state what can be done to reduce or increase the need for leadership

The student must be able to state the degree to which the tasks of subordinates which are to be accomplished are clearly defined and understood by the subordinates in this situation; indicate how less leadership is needed the clearer the subordinates own tasks are to them; and state what can be done to reduce or increase the need for leadership.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 37 38 39.

Same scale value appears in: 40 and level 4.



CURRICULUM OBJECTIVE SHEET			<u> </u>	<i>'</i>	<u>Page 1</u>	of l
Type of Objective Skil	1 -	Factor		No.	42	
Skill or Knowledge Category		a Relevant Lang	ы. е.	Scale	Value	2.0
Occupation Patient Care		,			Level	1
Refers to Task Code No(s).:	166' 190 271	279 281 283 287	289 .291	490		
Refera to lask some he (s)	100 170 1.1	,				
<u> </u>			> /			
Is there Cross Reference? .	Yes(x)No	o() If wes, se	e for inot	e(s).		
is there group hereignes.		· · · / · · ·	-			

Content: A graduate of the program at this educational level must be able to

communicate orally (in an appropriate language) and comprehend what is said
in that language with a sufficient degree of precision to accomplish the
following activities by expressing or comprehending meaning with the degree
of precision needed:

- Asking co-worker for "clean" items to be handed into an area being used for decontamination or isolation procedures (Task 166).
- 2. Asking co-worker to assist in helping patient to or from wheelchair, tretcher, bed, or table (Task 190).
- 3. Asking appropriate staff person to check whether ECG reading is an artifact (Task 271).
- 4. Calling, asking appropriate næsing personnel to prepare patients for transportation to department for procedure at indicated time (Task 279).
- 5. Explaining that wrong patient has been sent; asking for proper patient.

 (Task 281)
- 6. Asking to have the help of an RN to dress or redress a patient's wound; describing the situation and the condition of the dressing (Task 283).
- 7. Calling, placing order for a meal, formula, or special diet for a patient and asking when it will be ready for pick up (Tasks 287, 289).
- 8. Asking patient to open and close mouth when taking oral temperature (Task 291).
- 9. Indicating to staff member that patient has been immobilized (Task 490)

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Object Ves: Sams scale value appears in: 43 44 45.46.

Higher scale value appears in: 47 48 49 50 51 52 53.

CURRICULUM OBJECTIVE SHEET			rage 1 of.
Type of Objective Skill		Factor L	V No. 43
Skill or Knowledge Category	Oral Use of a	Relevant Language	Scale Value 2.0
Occupation Patient Care	Technician		•. Level 2
Refers to Task Code No (c)::	308	<u>* </u>	
	•		
•		7	
Is there Cross Reference?	Yes(X)No() If yes, see for	otnote(s).
			<u></u>

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

1. Asking what to look for in display of blood pressure monitoring; telling physician when any emergency signs or unusual ECG or pressure reading occurs (Task 308).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 42 44 45 46. Higher scale value appears in: 47 48 49 50 51 52 53.

CURRICULUM OBJECTIVE SHEET				Page 1 of 1
Type of Objective Skill	. 1	Factor		44
Skill or Knowledge Category	Oral Use	f a Relevant Lang	uage Sca	ale Value 2.0
Occupation Quality Assurar	ce Aide	_		Level <u>l</u>
Refers to Task Code No(s).	8 69 70 71	79 80 ⁻ 95 134 135	.136 137 145	5 163 164 184
227 260 273 275 284 285 286				
•	**			,

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Reporting equipment problems to appropriate staff member or repair service organization: (Tasks 8, 70, 273, 284).
- 2. Informing staff member that processed x-ray films, materials, equipment, or supplies are ready (Tasks 69, 71, 79, 80, 164, 275).
- 3. Asking co-worker to do a portion of task or carry out a simple activity (Tasks 95, 135, 137, 52).
- 4. Questioning co-worker to obtain information needed for records (Tasks 134, 300).
- 5. Reporting missing equipment, records, or supplies, and/or asking for replacement of supplies (Tasks 136, 184, 227, 284, 285, 286, 297, 304, 354).
- 6. Asking opinion of co-worker about equipment or supplies (Task 145).
- 7. Asking for check of rewords, forms, or for signature; listening to any changes ordered; reporting leftover drugs (Tasks 163, 260, 288).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives
Same scale value appears in: 42 43 45 46.
Higher scale value appears in: 47 48 49 50 51 52 53.



 CURRICULUM OBJECTIVE SHEET.
 Page 1 of 1

 Type of Objective Skill or Knowledge Category Oral Use of a Relevant Language
 VI
 No.
 45

 Skill or Knowledge Category Oral Use of a Relevant Language
 Scale Value 2.0

 Occupation Quality Assurance Technician
 Level 2

 Refers to Task Code No(s): 78 173 178 187 276 523 524 525 534 536 538 553 554

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed.

- 1. Asking staff member to sign record or form (Task 78).
- 2. Reporting equipment problems to appropriate staff member or repair service organization (Tasks 173, 178, 187, 276, 523, 525, 534, 536, 538, 555, 556).
- 3. Informing staff member that materials, equipment, or supplies are ready for use or out-of-order (Tasks 524, 538).
- 4. Reporting missing equipment or supplies and/or asking for replacement or replantshment (Task 524).
- 5. Telling staff member's supervisor about unusual radiation dosage readings; arranging to have interview conducted to investigate reasons

 [Task-554].

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 42 43 44 46.
Higher scale value appears in: 47 48 49 50 51 52 53.



556~

CURRICULUM OBJECTIVE	SHEET .				Page I of I
Type of Objective Sl	cill,		Factor .	A No.	46
Skill or Knowledge Ca	tegory Oral Us	e of a Releva	int Language	`Scale	Va Yu 2.0
Occupation Administr	rative_Technolo	gist		<u> </u>	Level . 3
Refers to Task Code N	o(s).: 76 128'1	29 131 132 16	55 272 27 3 _		
				• • • <u> </u>	<u> </u>
5			,		
Is there Cross Refere	nce?Yes(X)	No() If	yes, see fo	otnote(s).	

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Asking about or receiving requests for materials to be ordered for department (Tasks 76, 129).
- 2. Asking co-worker to assist in performance of task; notifying staff when it is time to prepare a patient (Tasks 128, 272)
- 3. Reporting problem such as discrepancy in records to supervisor (Task 128).
- 4. Asking about staff preference in work, vacation, lunch, or break times; telling staff the schedules assigned or rescheduled (Task 131).
- 5. Requesting repair or replacement of equipment or supplies, or asking for a service (Task 132).
- 6. Telling supervisor about an attendance or lateness problem of one of supervisor's subordinates (Task 165).
- 7. Asking about patient attendance (Task 277).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives Same scale-value appears in: 42 43 44 45.
Higher scale value appears in: 47 48 49 50 51 52 53.

CURRICULUM OBJECTIVE SHEET

Page 1 of

Type of Objective Skill Factor IV No. 47.

Skill or Knowledge Category Oral Use of a Relevant Language Scale Value 4.0

Occupation Patient Care Aide Level 1

Refers to Task Code No(s): 73 74 98 113 138 153 155 193 199 262 278 282 290

292 295 302 303 520 521

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Explaining what will happen during procedure to patient and/or accompanying adult using language understandable to the persons involved; explaining use of equipment or materials (Tasks 73, 98, 113, 153, 155, 262, 282, 290, 292, 303, 520, 521)...
- laining to patient or family member the procedures to be carried out. I home before patient arrives for radiography; explaining what will appen; checking that patient or family member understands (Task 74).
 - 3. In conversation with patient noting whether patient mentions symptoms or worries related to health, or concerns which would indicate information helpful to physician in caring for patient; reporting to physician or appropriate staff member (Task 138).
 - 4. 'Questioning patient to learn Whether pre-examination procedures have been carried out (Task 193).
 - 5. Questioning patient or accompanying adult to learn whether a condition exists brecluding use of an oral thermometer with patient (Task 199).
 - 6. Asking fard or floor supervisor about nonappearance of patients for examination; requesting that such instances be avoided; suggesting early notification of cancellations (Task 278).
 - 7. Participating in meeting of nursing personnel assigned to x-ray depart ment; raising questions about work, rules, regulations, new equipment, problems of patient care; participating in discussions (Task 295).
 - 8.' Making a telephone call on behalf of patient; relaying patient's message; taking return message'(Task 302).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words fleeded correctly in context or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Formatés: See The Following Curriculum Objectives: Lower scale value appears in: 42 43 44 45 46.
Same scale value appears in: 48 49 50 51 52.
Higher scale value appears in: 53.

CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor IV No. 48

Skill or Knowledge Category Oral Use of a Relevant Language Scale Value 4.0

Occupation Patient Care Technician Level 2

Refers to Task Code No(s).: 18 33 65 133 143 156 181 182 185 198 243 280 296 298 299 522

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate oradly (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- Explaining to patient what will be done in drawing blood (Task 18), removing sutures (Task 33), using suction machine (Task 182), administering oxygen (Task 185), applying pressure dressing (Task 522).
- 2. Discussing timing of specimen-taking procedures with physician so that performer may receive body fluid, washings, and/or cell or tissue biopsies and prepare them for transportation to laboratory (Task 65).
- 3. Explaining name and purpose of medication and possible side effects; asking about patient's allergies; reporting contraindications to physician (Tasks 133, 198. 298, 299).
- 4. Explaining catheterization procedure to patient; reporting to physician reason for terminating if there is severe pain or blockage (Tasks 143, 181).
- 5. Telling physician if patient's wound or opening appears suspicious or if performer is unsure how to irregate, medicate or dress (Task 156).
- Explaining to staff member need for restraining patient, and asking why this was not done beforehand (Task 243).
- 7. Discussing possible reasons for unusually high radiation exposure reading on performer's radiation detection device; discussing possible transfer of work (Task 280).
- 8. Determining from co-workers information about a patient and the situation involved in a possible emergency; when physician arrives, reporting what has happened and what emergency care has been administered (Task 296).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficent precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See the Following Curriculum Objectives: Lower scale value appears in: 42 43 44 45 46.

Same scale value appears in: 47 49 50 51 52 and level 4 of patient care. Higher scale value appears in 53.

CURRICULUM OBJECTIVE SHEET				<u> </u>	Page 1	of 1
Type of Objective Skill	9	Factor	٧I	No.	49	
Skill or Knowledge Category	Oral Use of a	Relevant Langu	ıage	Scale	Value	4.0
Occupation Quality Ass	uranc e Ai de	<u> </u>		•	Level	1
Refers to Task Code No(s).:	147 192					
		<u> </u>				
Is there Cross Reference?	.Yes(X)No() If yes, see	footno	ote(s).		
	A 1					

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Asking about orders or suggestions to change technique charts for specific x-ray and fluoroscopic equipment; informing staff of changes (Task 147).
- 2. Dis ussing with te analyzist or radiologist image quality and contrast settings available with keroradlography equipment (Task 192).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 42 43 44 45 46.

Same scale value appears in: 47 48 50 51 52.

Higher scale value appears; in: 53.



Page 1 of 1

Type of Objective Skil	L				Fac	tor		/I	No.		50	
Skill or Knowledge Category	Oral	Us e of	a	Reley	ant	Lang	guage	2	Scal	e Va	lue	4.0
Occupation Quality Assura	ance Tec	hņicia	n_							Le	vel	_2_
Refers to Task Code No(s) .:	175 28	0 527	529	530	531	532	533	5 <u>3</u> 5	537	539	540	543
<u>544 545 548 549 550</u>									. `			

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Gontent: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Discussing possible changes in technique charts for specific x-ray machines based on results of penetrometer calibration test of kVp and mA selectors (Task 175).
- 2. Discussing possible reasons for unusually high radiation exposure reading on performer's radiation detection device; discussing possible transfer of work (Task 280).
- 3. In retrieving computerized transverse axial scans, discussing incomplete or unclear information on requisition with appropriate staff; plaining display options (Task 527).
- 4. Discussing results of tests of x-ray or film processing equipment, radiation survey, or radiation monitoring results with supervisor or radiologist; explaining effect of problems and deviations from acceptable standards in terms of patient exposure, diagnostic reliability, legal requirements (Tasks 529, 530, 531, 532, 533, 535, 537, 539, 540, 543, 545, 548, 549, 550).
- 5. Discussing results of test of exposure characteristics of x-ray or dosimetric films and making suggestions on the disposition of the films (Task 544).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 42 43 44 45 46.

Same scale value appears in: 47 48 49 51 52.

Higher scale value appears in 53.



CURRICULUM OBJECTIVE SHEET

Page 1 of

Type of Objective Skill Factor III No. 51

Skill or Knowledge Category Oral Use of a Relevant Language Scale Value 4.0 Occupation Radiologic Technologist Level 3

Refers to Task Code No(s): 81 280 353 369 370 371 372 373 491 492 493 494 495

497 498 504 505 507 509 510 511 512 513 514 515 516 517 518 519

Is there Cross Reference? .. Fes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. In providing technical review of "plain film" radiographs, giving opinions, discussing reasons, making or explaining recommendations to co-worker (Task 81).
- 2. Discussing possible reasons for unusually high radiation exposure reading on performer's radiation detection device; discussing possible transfer of work (Task 280).
- 3. Participating in meeting of technologists in x-ray department; raising questions and/or discussing issues such as patient care, departmental functioning, rules, new equipment (Task 353).
- 4. Discussing precautions in dealing with patient; explaining use of radiation shielding, asking about equipment locations in relation to bedside or operating room radiography (Tasks 369, 370, 371, 372, 373).
- 5. Discussing safety procedures, equipment, use of anesthesia, and information on timing of procedures (Tasks 370, 371, 372, 373, 498, 504, 505,507, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519).
- 6. Discussing incomplete, confusing, or unclear requisition, precautions needed in dealing with patient, positioning options, and or contraindications to radiographic examination-with supervisor or radiologist (Tasks 491, 492, 493, 494, 495, 497, 498, 504, 505, 507, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519).
- 7. Explaining examination procedure to patient or accompanying family member; answering questions as appropriate (Tasks 491, 492, 493, 494, 495, 497, 504, 505, 507, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reterence Footnetes: See the following Curriculum Objectives: Lower scale value appears in: 142 43 44 45 46.

Same scale value appears in: 47 48 49 50 52.

Higher scale value appears in: 53.



CURRICULUM OBJEC	TIVE SHEET					Page 1 of 1
Type of Objectiv			Facto		No.	52
Skill or Knowled	ge Category_	Oral Use of a	Relevant L	anguage	Scale	Value 4,0
Occupation	dministrativ	e Technologist	•	•		Level 3
Refers to Task (Code No(s).:	186 293 294	· ' ,		•	
<u> </u>			-			
		···	·			

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Explaining purpose of orientation to new staff; describing work procedures, record keeping, scheduling; answering questions (Task 186).
- 2., In attending private meeting with supervisor, discussing problems raised by supervisor about work; raising or discussing own problems (Task 293).
- 3. In sending staff member on a work assignment, explaining what is to be done (Task 294).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 42 43 44 45 46.

Same scale value appears in: 47 48 49 50 51.

Higher scale value appears in: 53.



·Page 1 of

Type of Objective	Skill		٠٠, ٣٠	Ractor	_ III'	No.	<u>53</u>	
Skill or Knowledge	·Category	Oral Use	o f a R el	evant Lang	uage	Scale	Value	7.5
Occupation Radio	logic Techn	ologist		* *			Level	3
Refers to Task Cod	e No(s).:	355 35613	57 358 3	59 360 361	362* 363	364 ·3	65 366	367
368 374 375 376	377 378 37 9	3,80 381	382 383*	384 385 38	6 387 38	8 389	390 463	3
464 465 466 467	468 496 499	500 501	502 503	506 508 52	6	. •	u dedu	
Te there Cross Ref.		Vec(Y)		Tf voe co		(c)	•	

Content: A graduate of the program at this educational level must be able to communicate orally (in an appropriate language) and comprehend what is said in that language with a sufficient degree of precision to accomplish the following activities by expressing or comprehending meaning with the degree of precision needed:

- 1. Explaining a problem about the x-ray requisition sheet, contraindications about procedure with supervisor or radiologist; discussing timing of procedures, signals (all tasks listed as appropriate).
- 2. Explaining to patient what will be involved in the procedure, what type of positions to assume; explaining, rehearsing any breathing or maneuvers to be carried out by patient; indicating what side effects can be expected and what will be done to help patient (all tasks listed as appropriate).
- 3. Asking about female patient's menstrual cycle and checking on pregnancy possibility; asking about allergies, adverse reaction to contrast (all tasks listed as appropriate).
- 4. Explaining use of radiation safety shielding to patient and any other staff to be present (all tasks listed as appropriate).
- 5. Asking about the movement possible in positioning patient and alternatives; discussing special care needed with appropriate staff (all tasks listed as appropriate).
- 6. Telling patient exactly how to move and breathe during course of x-ray examination (all tasks listed).

To accomplish this, the student must be able to deal with the nuances of oral language with sufficient precision to use the words needed correctly in context, or grasp the meaning (or question a speaker about intended meaning), so that the activities involved can be accomplished satisfactorily.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 42 43 44 45 46 47 48 49 50 51 52. Same scale value appears in level 4 and 5.

CURRICULUM OBJECTIVE SHEET īV No. Type of Objective Factor Skill or Knowledge Category Reading Use of a Relevant Language Scale Value 2.0 Occupation Patient Care Aide Level 1 74 98 153 155 166 190 193 199 262 278 279 281 287 Refers to Task Code No(s) .: 289 290 301 302 303 520

Is there Cross Reference?....Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate *language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading physician's orders, patient checklist, or requisition sheet for instructions or details on procedure ordered for patient, what materials to use, or how to proceed with patient in task (Tasks 74, 98, 166, 193, 199, 262, 287, 289, 301, 303, 520).
- Reading labels on packaged materials or equipment in order to check for presence of appropriate materials or to select appropriate materials for use in task (Tasks 153 290).
- Preparing and/or checking identifying labels or checking patient's identity or location by reading patient identification information on requisition sheet and/or on patient's ID bracelet (Tasks 155, 190, 281, 289).
- Reading schedule and identifying the names of patients scheduled for procedures; reading names so as to place telephone call (Tasks 278, 279, 302).

Cross Reference Footnotes: See The Following Curriculum Objectives Same scale value appears in: 55 56 57 58 59.

Higher scale value appears in: 60 61 62 63.

CURR JULUM OBJECT	IVE SHEET	· ^+*			Pag	ge l of al
Type of Objective				tor IV	No	55
Skill or Knowledge	e Category_	Reading Use	of a Releva	nt Langua	Scale Va	lue 2.0
Occupation Pat	ient Care Te	chnician '			Le	evel <u>2</u>
Refers to Task Co	de No(s).: 🛀	18 65 133 14	3 156 181 18	32 185 198	-296 2 8 29	<u>99 308 52</u> 2
A			<i>P</i>	<u> </u>		
			•	·	·	

Is there Cross Reference? ... Yes(X) .. No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading physician's orders, patient checklist, or requisition sheet for instructions or details on procedure for patient, what materials to use, how to proceed with patient in task, quantities ordered (Tasks 18, 65, 133, 143, 134, 181, 182, 198, 298, 299, 308).
- 2. Reading labels on packaged materials, supplies, or equipment in order to theck for presence of appropriate materials or to steed appropriate materials to use in task (Tasks 133, 156, 185, 198, 296, 298, 299, 522).

Cross Reference Footnotes: See The Following Curriculum Objectives

Same scale value appears in: 54-56 57 58 59.

Higher scale value appears in: 60 61 62 63.



CURRICULUM OBJECTIVE	SHEET					<u> </u>	Page 1 o	f 1
Type of Objective	Skill		*	Factor	. <u>VI</u>	No.	<u>56 · .</u>	
Skill or Knowledge Ca	ategory	- Reading	Use of	a Relévant	Language	Sçale	Value 12	0.0
Occupation Quality	y Assura	ince Áide					Level	<u>1'.</u>
Refers to Task Code	No(s).:	69 71 72	79 80	95 1 34 135 1	136 137 1	47 163	164 1 <u>80</u>	
19 2 222 227 260 <u>264</u>	267 269	274 275 28	4 285	286 288 300	304 354	<u> </u>	1	

Is there Cross Reference? ... Yes(X) ... () If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading identification information, labels on materials, equipment, supplies, or schedules in order to carry out task, make checks; or return materials to proper location (Tasks 69, 71, 79, 80, 135; 136, 137, 180, 227, 264, 267, 269, 274, 284, 285, 286, 300, 304, 354).
 - 2. Reading standard orders or formulas for mixtures to prepare, materials or supplies to assemble or quantities to use for specific procedures or to restock supplies (Tasks 72, 79, 80, 180, 227, 260, 274, 354).
 - 3. Reading written orders, requisition, or check list in order to determine how to proceed in task/(Tasks 95, 275).
 - 4. Reading charts or forms in order to fill out information on records or interpret test results (Tasks 95, 134, 137, 147, 163, 164, 264, 288)
 - 5. Reading indicators on equipment to determine condition of equipment. (Tasks: 192, 222).

Cross Reference Footnotes: See The Following Curriculum Objectives
Same scale value appears in: 54 55 57 58 59. *
(Higher scale value appears in: 60 61 62 63.

-CURRICULUM OBJECTIVE	SHEET 🗸				<u> </u>			Page I	or 1
Type of Objective	Skill		•		Factor	V/I	No.	<i>5</i> .7	
Skill or Knowledge C	ategory	Readi	ng Use	of a Re	levant	Language	Scale	Value	2.0
Occupation Quality A	ssur án ce	Techni	cian	` `				Level	2 -
Refers to Task Code	No(s):	78 175	178-18	7 5 34					
	•				<u> </u>	<u></u>			
	•	, ,		-	•				
Is there Cross Refer	ence?	Yes(X)	No() If	yes, se	e footnot	e(s).		

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading identification information to sort or group materials, records, or supplies, or make checkers test (Tasks 78, 175, 178, 187, 534).
- 2. Reading records, indicators, or charts to carry out tests or compare results (Tasks 175, 178, 187, 534).

Cross Reference Footnotes: See The Following Curriculum #bjectives: Same scale value appears in: 54 55 56 58 59.
Higher stale value appears in: 60 61 62 63.



CURRICULUM OBJECTIVE SHEE	<u>ET</u>	• -	<u> Page 1 of 1</u>
Type of Objective	Skill .	- Factor III	No58
Skill or Knowledge Catego	ory Reading Use	of a Relevant Language	Scale Value 2.0
Occupation Radiologic	Technologist		Level <u>3</u>
Refers to Task Code No(s))::, 353 370 371	.372 373	<u> </u>
		` '	1

Is there. Cross Reference? ... Yes (%) ... No() If yes, see footnote(s)

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading agenda of meeting and own notes (Task 353).
- 2. Reading information on requisition sheet to determine who is involved in procedure, the procedure, the equipment ordered, the location, time and/or other orders (Tasks 370, 371, 372, 373).

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 54 55 56 57 59.

Higher scale value appears in: 60 61 62 63.



Type of Objective Skill . Factor A No. 59

Skill or Knowledge Category Reading Use of a Relevant Language Scale Value 2.0

Occupation Administrative Technologist Level 3

Refers to Task Code No(s): -76 128 129 131 272 277 293 294*

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading labels, lists of supplies or "par levels," instructions on tally sheets used to record narcotics supplies, categories on order forms and control sheets, in order to take inventory or to order supplies (Tasks 76, 128, 129).
- 2. Reading relevant information on schedules and/or requisition sheets in assigning staff to work assignments or scheduling patients for procedures (Tasks 131, 272, 277).
- 3. Reading written warning or evaluation of performer in order to decide whether to sign that it is acknowledged (Task 293).
- 4. Reading note written personally or by co-worker, or reading requisition in order to tell staff member what activity is to be carried out (Task 204)

Cross Reference Footnates: See The Following Curriculum Objectives: Same scale value appears in: 54 55 56 57 58.

Higher scale value appears in: 60 61 62 63.

CURRICULUM OBJECTIVE SHEET			. Page 1 of 1
Type of Objective Skill	\	Factor IV	No. 60
Skill or Knowledge Category Reading/	Use of a	Relevant Languag	è Scale Value 5.0
Occupation Patient Care Technical	1,		Level 2
Refers to Task Code No(s): 33 280/			
			<u> </u>
	•• .	۵	•
Is there Cross Reference? Yes(x)	No()	If ves. see foot	note(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to a complish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading patient's chart to review relevant medical history in connection with removal of sutures (Task 33).
- 2. Reading letter informing performer of unusually high monthly radiation exposure or of high cumulative exposure and/or requesting presence at an interview (Task 280).

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 54 55 56 57 58 59.

Same scale value appears in 61 62 63.



CURRICULUM OBJECTIVE SHEET		(• • •	Page 1	of_,]
Type of Objective Skill			Fact	or 'VI	No.	61	
Skill er Knowledge Category_	Reading Use	of a	Relevant	Language	Scale	Value	5.0
Occupation . Quality Assura						Level	<u>'1</u>
Refers to Task Code No(s).:			•	· ·	_ •	•	للمسيد
**	• • • • • • • • • • • • • • • • • • • •	-	,	<u> </u>	1	<u>}.</u>	
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Is there Cross Reference? ... Yes(X) ... No(*) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able toread and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the maferials read:

- 1. Reading operator's manual in connection with problems in shutting down computerized transverse axial tomography equipment (Task 8).
- 2. Reading manufacturer's directions on preparing refills of developer and/or fixer for hand processing of k-ray films (Task 70), or automatic processors (Task 273).

Cross Reference Footnotes: See The Following Curriculum Objectives Lower scale value appears in: 54 55 56 57 58 59.

Same scale value appears in: 60 62 63.



Page 1 of

Type of Objective	Skill						Fa	ctor	V)	[No		62	1
Skill or Knowledge	Category	Rea	ding	z Us	e of	a Re	. eleva	int I	angi	age	• Sca	le V	alue	5.0
Occupation Qual	ity Assu r a	ince	Tech	mic:	ian	_ •							evel	
Refers to Task Cod	e:No(s).:	276	280	523	524	525	527	529	530	531	532	533	535	537
5 <u>38 539 540 543 54</u>	4 545 548	549	550	55 3	554	556	•		•	Ť	•	•	1.	
			_						•				/ •	

Is there Cross Reference? ... Yes(X) ... No() If yes, see footbote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning or any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness of comprehension of the materials read:

- 1. Reading manufacturer's directions on preparing refills of developer and/or fixer for automatic x-ray film processors (Task 276).
- 2. Reading letter informing performer of unusually high monthly radiation exposure or of high cumulative exposure and or requesting presence at an interview (Task 280).
- 3. Reading operator's manual in connection with problems in preparation, maintenance, check of calibration or operation of retrieval functions of communicated transverse axial tomography equipment (Tasks 523, 524, 525, 5
- 4. Reading standard test procedures, government standards, test forms and records, and manufacturers' specifications in connection with tests of diagnostic radiography equipment, film processors, film batches, radiation surveys, and radiation monitoring (Tasks 529, 530, 531, 532, 533, 535, 537, 538, 539, 540, 543, 544, 545, 548, 549, 550).
- 5. Reading descriptions of steps to be followed in calibrating, processing, reading, and recording radiation exposure in connection with dosimetric fills or thermoluminescent desimeters (Task 553).
- 6. Reading instructions for entering, evaluating, and reporting personnel radiation exposure data and initiating action on dangerous levels (Task
- 7. Reading instructions on how to calibrate radiation exposure detection instruments and/or electrical measuring instruments, densitometers, sensitometers and other test instruments (Task 556).

Cross Reference Protectives: See The Following Curriculum Objectives: Lower scale value appears in: 54 51 56 57 58 59.

Same scale value appears in: 60 61 63.

Higher scale value appears in: level 3.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Skill , Factor III No. 63

Skill or Knowledge Category Reading Use of a Relevant Language Scale Value 5.0

Occupation Radiologic Technologist Level 3 .

Refers to Task Code No(s) .: 81 280 355 356 357 358 359 360 361 362 363 364 365 366

367 368 369 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 491 492 493 494 495 496 497 498 499 500 (*continued below)

Is there Cross Reference? ... Yes(X) ... No() If yes; see footnote(s).

Content: A graduate of the program at this educational level must be able to read and comprehend the meaning of any printed or written material (in an appropriate language) with a sufficient degree of precision to accomplish the following activities, based on the preciseness; of comprehension of the materials read:

- 1. Reading requisition sheet and patient's relevant medical-technical history to determine the examination called for, the part of the body, the views ordered, the purpose, the patient involved, any special considerations; reading to check on possible contraindications, radiation exposure history, any prior preparation, special requests, medications or anesthesia ordered; reading to learn patient's condition, means of arrival, whether accompanied, any special equipment or contrast media ordered; and any other information about how the procedure is to be carried out (all ctasks listed except Task 280).
- 2. Reading letter informing performer of unusually high monthly radiation exposure or of high cumulative exposure and/or requesting presence at an interview (Task 280).

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 54 55 56 57 58 59.

'Same scale value appears in: 60 61 62 and level 4.

Higher scale value appears in level 5.

* 501-502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 \$17 518 519 526.



CURRICULUM OBJECTIVE SHEET		Page 1 01 1
Type of Objective Skill	Factor IV	No. <u>64</u>
Skill or Knowledge Category Written Use of a Re	levant Language	Scale Vilue 2.0
Occupation Patient Care Aide		Level <u>1</u>
Refers to Task Code No(s): 278 279 295		
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Is there Cross Reference? Yets (X) No() If	yes, see footno	te(s). '

Content: A graduate of the program at this educational level must be able to convey meaning by writing or dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

- 1. Writing reason for delay or nonappearance of patient for examination (Tasks 278, 279)./
- 2. Making notes in preparation for or during a-departmental meeting (Task 295).

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 65 66 67 68 69.
Higher scale value appears in 70.

CURRICULUM OBJECTIVE SHEET		age l	<u>of 1</u>
Type of Objective Skill	Factor IV No.	65	
Skill or Knowledge Category Written Use of	a Relevant Language Scale	Value_	2.0
Occupation Patient Care Technician		Level	2 -
Refers to Task Code No(s).: 33 156 181, 243	522		
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	•		
Is there Cross Reference? Yes(X) No()	If yes, see footnote(s).	_	•

Content: A graduate of the program at this educational level must be able to convey meaning by writing or dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

1. Recording the patient care, treatment, or procedure carried out for patient, any patient reaction, patient's condition (all tasks listed).

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 64 66 67 68.69.

Higher scale value appears in: 70.



CURRICULUM OBJECTIVE SHEET	^			• • •	Page 1 of	
Type of Objective Skil	1		Factor.	VI	No. <u>66</u>	
Skill or Knowledge Category	Written	Use of	a Relevant Lar	iguage	Scale Value 2.0	
Occupation Quality Assura	nce Aide				Level 1	
Refers to Task Code No(s) .:	134	, -		-	· ·	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to convey meaning by writing or dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

1. Recording information on services performed, identification information, referrals made in log book or other records (Task 134).

Cross Reference Footnotes: See The Following curriculum Objectives: Same scale value appears in: 64 65 67 68 69.

Higher scale value appears in: 70.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Skill
 Factor
 VI
 No.
 67

 Skill or Knowledge Category
 Written Use of a Relevant Language
 Scale Value
 2.0

 Occupation
 Quality Assurance Technician
 Level
 2

 Refers to Task Code No(s):
 173 175 178 187 276 525 529 530 531 532 533 534 535
 535 536 537 538 539 540 543 544 545 548 549 556

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to convey meaning by writing or dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

- 1. Writing instructions for compensations to be made for inaccuracy of exposure controls such as timer, kVp or mA selectors, or making changes on technique charts (Tasks 173, 175).
- Recording results of equipment test or radiation monitoring tests, description of any problem or damage, or evaluation of test results; recording what was done (all tasks listed).

Cross Reference, Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 64 65 68 69.
Higher scale value appears in: 70.



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CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor LLI No. 68 .

Skill or Knowledge Category Written Use of a Relevant Language Scale Value 2.0 Occupation Radiologic Technologist Level 3

Nefers to Task Code No(s): 81 353 355 356 357 358 359 360 361 362 363 364 365 .

366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 491 492 493 494 495 496 (*continued below)

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to convey meaning by writing or dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

- 1. Recording order for "retakes" of radiographs or suggestions for additional views in connection with quality review of "plain film" radiographs (Task 81).
- 2. Making notes in preparation for or during a departmental meeting (Task 353).
- 3. Recording radiographic examination; including date, room, examination type, the views taken including any serial films, the technical factors used, film size, the number of exposures made of each view including retakes; recording fluoroscopic and cine exposure time; recording the estimated madiation dose to which patient was exposed (if posted information on dosage is available); recording any problem with equipment, any special care provided patient recording reasons any views called for in the initial request could not be obtained (all tasks listed except Tasks 81, 353 as appropriate).

Cross Reference Footnotes: Sec The Following Curriculum Objectives: Same scale value appears in: 64 65 66 67 69 and level 4. Higher scale value appears in: 70.

* 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.



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erers to	o lask,	Loge N	o(s).: _	165 293			•		4			
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s there	Cross 1	Ref ere	nce?	Yes(X)	No() I,f	yes,	see	foo t no	ote(s).		
				program								
				ng or di								
				ecision e follow								
				erials w					_		<u>.</u>	
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1.	ness,	absent	eeism,o	r abuse	of lun	chor	break	c țime				•
•	privat	e meet	ing with	h staff	member	(Task	(165)), •			•	
2.	Writin	g comm	ents ab	out writ	ten ev	aluati	ion of	own	work	made b	y super-	-
				erformer							,	
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CURRICULUM OBJECTIVE SHEET

Rage 1 of 1

Type of Objective Skill Factor VI No. 70
Skill or Knowledge Category Written Use of a Relevant Language Scale Value 5.0
Occupation Quality Assurance Technician Level 2
Refers to Task Code No(s): 550/554

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to convey meaning by writing on dictating (in an appropriate language) with a sufficient degree of precision in the words, sentences, and/or paragraphs formed to accomplish the following activities, based on the clarity of meaning conveyed in the materials written or dictated:

- 1. Preparing a report for use by personnel such as radiologists, technologists, or nurses indicating the safest positions for personnel who must remain in room during radiographic or fluoroscopic examination based on results of survey (Task 550).
- 2. Writing a letter arranging an interview for a staff member who has a high radiation exposure incident or has a high cumulative dose level: preparing reports for staff or government on individuals occupationally exposed to ionizing radiation (Task 554).

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 64 65 66 67 68 69...
Same scale value appears in level 5.

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Type of Object:	ive _	Skil	l				Fa	ctor	•	IV .	No.		71	
Skill or Knowle	edge	Category	De	cisio	n Makin	on	Meth	ods			Scal	e Va	alue_	1.5
Occupation \sqrt{P}	atien	t Care A	i de	1	•							_ Le	evel	1
Refers to Task	Code	No(s).:	98	199	262 279	281	282	283	287	295	490 5	20	52 f	
)	, •		_ •	1	_								
		_								_				
Is there Cross	Refe	rence? .	.Yes	3 (X)	No()	If	yes	, se	e fo	otno	te(s)			

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding whether patient can give urine specimen unaided; deciding way to explain to patient how to provide clean catch urine specimen (Task 98).
- Deciding whether to use oral thermometer to take the patient's temperature; deciding whether to give pacifier or bottle to quiet pediatric patient (Task 199).,
- 3. Deciding whether to use another ECG machine, have replacement or adjustment made, or to adjust personally at once or at a later time if ECG machine is out of cardiograph paper or not recording adequately (Task 262).
- 4. Deciding whether to send co-worker if no messenger is available to transport patient for procedure (Task 279).
- 5. Deciding whether to notify co-workers to use isolation procedures when handling patient in addition to attaching an index card to patient's garments indicating that this is an isolation patient (Task 281).
- 6. Deciding whether to assist patient to get undressed and put on gown or redress; deciding how to assist patient (Task 282).
- 7. Deciding whether a dressing requires the attention of more senior staff; deciding whether to inform RN nearby or call patient's ward and describe the situation (Task 283).
- 8. Deciding whether patient needs to be fed; deciding how to feed (Task 287).
- 9. Deciding whether to make notes in preparation for departmental meeting; deciding how to participate at meeting (Task 295).
- 10. Deciding what sanitary precautions to take with patient based on patient's condition (Task 490).
 - 11. Deciding how to fold sheet used to mummy patient based on the access needed to parts of the body in the procedure ordered (Task 490).



CURRICULUM OBJECTI	VE SHEET	(continued)	*				age 2	of_	2
Type of Objective	. Skil			Factor	IV	_ No	71		
Skill or Knowledge	Cagegory	Decision Mak	ing on Meth	ods		Scale	Value	1.5	
			• •		<u> </u>				_

Content Continued

- 12. Deciding whether to contact staff to receive more detailed orders or information before preparing a patient for ECG monitoring (Task 520).
- 13. Deciding whether to circle (mark) an apparent hematoma at arterial puncture site and/or to report to appropriate staff member (Task 521).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 72 73 74 75 76.
Higher scale value appears in: 77 78 79 80 81 82 83 84 85 86.



CURRICULUM OBJECTIVE SHEET	<u> </u>		Page 1 of
Type of Objective Skill	Factor	ĪV	No72
Skill or Knowledge Category Decision Making	on Methods		Scale Value 1.5
Occupation Patient Care Technician			• • Level 2
Refers to Task Code No(s).: 143 181 298		1	
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Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option megarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. In urethral catheterization, deciding whether to use hands for outer wrapper of catheter and transfer forceps or use sterile gloves with catheter; deciding on forceps or change of gloves after cleansing patient; deciding whether to massage patient's abdomen and exert pressure to induce voiding; deciding whether there is pain or resistance to passage of catheter sufficient to terminate (Tasks 143, 181).
- Deciding whether to explain to accompanying adult how to help while performer administers medication orally to pediatric patient (Task 298).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 71 73 74 75 76.

Higher scale value appears in: 77 78 79 80 81 82 83 84 85 86.



CURRICULUM OBJECTIVE SHEET				•	Page'l of	٠.۷
Type of Objective Skill			Factor VI	No.	73	_
Skill or Knowledge Category	Decision 1	Making on Me	ethods	Scale	Value 1,	5
Occupation Quality Assurance			-		_ Level <u>- 1</u>	_
Refers to Task Code No(s).:	8 69 70 <u>72</u>	79 134 145	163 164 167	7 192 223	267 297 5	<u>52</u>
		·			<u> </u>	_
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Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines. provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding whether to consult operator's manual, report problem to staff member, call service organization, or have test runs made, or to make test runs personally in connection with problems in shutting down computerized transverse axial tomography equipment (Task 8).
- 2. In film processing, deciding what identification information to check for depending on what type of film or study is involved; deciding what to use to enter missing information on film; deciding whether to investigate cause of artifacts that may appear on processed films (Task 69).
- 3. Deciding whether to check film hangers, check for light leaks, drying temperatures in connection with regular inspection, cleaning, and readying of x-ray film hand processing equipment (Task 70).
- 4. Deciding how to arrange materials to be used in loading x-ray film in cassettes, holders, and/or cartridges (Fask 72).
- 5. Deciding appropriate way to prepare barium sulfate contrast medium based on type of examination, purpose, ingredients and proportions ordered, and the type of patient involved (Task 79).
- 6. Deciding the appropriate place to obtain required information in order to fill out log book, tally sheet, or for instructional purpose (Task 134).
- 7. Deciding whether to ask opinion of co-worker about defective or damaged materials or throw parts away in connection with preparation for autoclaying (Task 145).
- 8. Deciding how to go about filling in cancellation and other report forms based on the information required and physician's required input (Task 163).
- 9. Deciding whether it is appropriate to inform co-worker that all labels and forms to be used in procedure have been prepared (Task 164).

CURRICULUM OBJECTIVE SHEET (continued

Page 2 of 2

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Type	of (Objective	Ski	11,	Factor -	VI	No.	73	
			Cagegory	Decision Making o	n Methods		Scale	Value	1.5

Content Continued;

- 10. Deciding how to arrange materials for inspection and cleaning of intensifying screens in cassette holders; deciding whether to replace old or damaged screens, discard, or have them repaired (Task 167).
- 11. Deciding whether to remedy problem personally, call service, or report to supervisor in connection with inspecting, checking, and preparing xeroradiography equipment for use (Task 192).
- 12. Deciding proper linens to go on unoccupied bed or stretcher bed (Task 223).
- 13. Deciding whether to apply print coater to translucent film before or after it is viewed by radiologist in connection with Polaroid processing of x-ray film (Task 267):
- 14. Deciding what to do to tain a computer control card for serial filming if usable card with correct sequence is not available (Task 297).
- 15. Deciding whether to remove insert in personnel monitoring badge and replace personally for each staff member, or have each person do this for himself; whether to record personally or have staff member sign own name (Task 552).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the task's successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 71 72 73 74 75 76.

Higher scale value appears in: 77 78 79 80 81 82 83 84 85 86.



CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor VI No. 74

Skill or Knowledge Category Decision Making on Methods Scale Value 1.5.
Occupation Quality Assurance Technician Level .2

Refers to Task Code No(s).: 523

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

 Deciding whether to carry out tests, notify supervisor or staff member or outside service organization in connection with problem in preparing computerized transverse axial tomography equipment for use (Task 523).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 71 72 73 75 76.

Higher scale value appears in: 77 78 79 80 81 82 83 84 85 86.

CURRICULUM DBJECTI	VE SHEET		•	<u> </u>	`		Page 1	of '1
Type of Objective	_ Skill		•	Factor	III	No.	* 75	
Skill or Knowledge	_Category	Decision	Making on	Methods		Scale	Value	1.5
Occupation Radio			3			_	Level.	3
Refers to Task Code	e No(/s).:_	353 370 3	71 372 373					
- ·	·			,				_

Is there Cross Reference? ... Yes(X) ..: No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows.

- 1. Deciding whether to make notes in preparation for departmental meeting; deciding how to participate at meeting (Task 353).
- 2. Deciding whether to notify a staff member to clarify or complete information on x-ray examination request; deciding what prior preparations are needed depending on whether mobile x-ray equipment will be brought, accessories to be used, proper dress needed, and consultation with staff (Tasks 370, 371, 372, 373).
- 3. Selecting appropriate speed and type of x-ray film, grid, and cassette combinations depending on the equipment available, what is appropriate for procedure, and standard institutional practices for operating room radiography (Tasks 370, 371, 373).
- 4. Deciding how to prepare x-ray film packets or use dental occlusal film packets depending on what is available for intravisceral operating room radiography (Task 372).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 71 72 73 74 76.

Higher scale value appears in: 77, 78 79 80 81 82 83 84 85 86.



CURRICULUM OBJECTIVE SHEET			<u> </u>		"	Page 1	<u>of 1</u>
Type of Objective Skill			Factor	A	No.	7.6	
Skill or Knowledge Category	Decision N	laking on	Methods	,	Scale	Value	1.5
Occupation Administrative	Technologis	st .				Level	
Refers to Task Code No(s).:	294 •			, •		•	
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	, -	• ,		_	-	•	,
Is there Cross Reference?	Yes (Y) N	In() ~ Tf	VAC CAA	footnat	-a(c)		-, - ,

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

1. Deciding whether to tell staff member being assigned an activity what to do in detail, refer to standard orders, write out information, or fill out requisition sheet (Task 294).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same Scale value appears in: 71 72 73 74 75. Higher scale value appears in: 77 78 79 80 81 82 83 84 85 86.



CURRICULUM OBJECTIV	e smeet	<u> </u>						Page 1	<u>of]</u>
Type of Objective.	Skill			Factor	, F	٧.	No.	77	•
Skill or Knowledge.	ategory_	Decision	Making on	Methods '	,	-	Scale	`Value	3.0.
Occupation Patier			•		9	_		Ļevel	_1
Refers to Task Code	No(s).,:	155 166 1	90 193 278	303	• •		<u> </u>	·	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill ... must be exercised are as follows:

- 1. Deciding how to instruct patient to provide urine specimen, whether to assist, at what point to attach label, whether to show specimen, take to laboratory, or have staff member deliver (Task 155).
- 2. Selecting what needs to be done in preparing examination or treatment room or isolation area for examination under isolation or decontamination conditions; deciding the clean-up to be done afterward (Task. 166).
- 3. Selecting how to go about assisting a patient to or from a wheelchair, stretcher, bed, or treatment table (Task 190).
- 4. Selecting what to do personally and what to ask co-worker to do in readying a patient for radiography or similar examination or treatment procedure (Task 193).
- 5. Selecting how to go about asking ward or floor supervisor to avoid frequent missed patient appointments and to notify department of cancellations (Task 278).
- 6. Deciding whether to have co-worker feed patient, encourage patient to defecate and have co-worker report back, and/or examine urine or feces specimen and report back (Task 303).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Gurriculum Objectives: Lower scale value appears in: 71 72 73 74 75 76.

Same scale value appears in: 78 79 80 81 82.

Higher scale value appears in: 83 84 85 86.



CURRICULUM OBJECTIVE SHEET				Page 1 of
Type of Objective Skill	4	. Facto	r IV:	No. 78 .
Skill or Knowledge Category	Decision	Making on Metho	ods	Scale Value 3.0
Occupation ' Patient Care	Technician 🖖	•		Level 2
Refers to Task Code No(s) .:	_, 18 33 65]	33 156 182 185	243 299 30	18
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding whether to have staff member prepare labels or materials for blood sample or deciding to prepare personally (Task 18).
- 2. Deciding whether to delegate all or part of task of removing patient's sutures (Task 33).
- 3. Selecting steps appropriate to decontamination technique in preparing bronchial secretion specimen for laboratory (Task 65).
- 4. Deciding whether to have staff member prepare medication to be used in intramuscular or subcutaneous injection; deciding whether, if the type of medication or dosage seems in error, inappropriate, was already given, or is contraindicated by allergy, to refuse to inject and report to physician (Tasks 133, 299).
- -5. Deciding whether to have staff member bring materials and medications for irrigation and/or dressing of wound or opening for catheter, for administration of oxygen (Tasks 156, 185).
- 6. Deciding whether to drape patient who will have suction machine applied; deciding whether to cleanse area surrounding tracheal opening, how to handle clean-up after procedure (Task, 182).
- 7. Selecting the proper restraints to use for patient (Task 243).
- 8. Deciding whether to prepare patient for ECG monitoring personally or have another staff member do. this; deciding whether to reposition electrodes based on ECG display (Task 308).

CURRICULUM OBJECTIVE SHEET (continued)

Page 2.of

Type of Objective Skill Factor IV No. 78
Skill or Knowledge Cagegory Decision Making on Methods Scale Value 3.0

Content Continued

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contrainding and must be able to provide justifications for the choices.

Crass Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 71 72 73 74 75 76.-Same scale value appears in: 77 79 80 81 82. Higher scale value appears in: 83 84 85 86.



CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor VI No. 79

Skill or Knowledge Category Decision Making on Methods, Scale Value 3.0

Occupation Quality Assurance Aide

Refers to Task Code No(s): 71 80 95 135 136 147 184 227 273 274 275 284 300

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

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Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Selecting time for developing x-ray films manually based on type of film and strength of developer solution; deciding when to agitate films to loosen air bubbles (Task 71).
- Selecting arrangement of materials on procedure tray, order of preparation, whether to label (Tasks 80, 274).
- 3. Selecting tablet or dipstick method for testing urine for glucose or acetone depending on request, availability of materials, or accuracy needed (Task 95).
- 4. Deciding on what to do in readying treatment or examination room after use; deciding whether to have soiled or contaminated room cleaned by staff member or appropriate housekeeping department (Task 135).
- 5. Deciding how and where to distribute contents of non-narcotic supplies delivered based on order, usual storage locations (Task 136).
- 6. Deciding whether to make changes on an X-ray machine technique chart or make new chart; deciding how to inform staff of changes in chart (Task 147).
- 7. Deciding whether to have co-worker obtain missing items or records, obtain personally, or call for replacement (Tasks 184, 227, 304, 354).
- 8. Deciding whether to clean roller assembly of automatic x-ray film processor by removing or while in position (Task 273).
- 9. Deciding how to group scout films and counterpart post-injection films in preparing subtraction prints, how to group these with their respective subtraction prints after they are made; selecting materials; deciding whether to redo any steps, whether to trim subtraction mask (Task 275).

CURRICULUM OBJECTIV	VE SHEET ((continued)				Page	2_	of	2
Type of Objective	Skill		Factor	VI.	No.		79	•	
Skill or Knowledge	Cagegory	Decision Making	on Methods		Scale	Valu	л е 3	.0	_
•			. •						

Content Continued

- 10. Deciding whether to clean suction machine, wash collection bottle, or have staff member do this in connection with check of presence and functioning of equipment (Task 284).
- 11. Deciding when to check and submit accumulated check lists of services, how to obtain missing information, whether to have co-worker take to appropriate office (Task 300).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footwotes: See The Following Curriculum Objectives:

Lower scale value appears in: 71 72 73 74 75 76. Same scale value appears in: 77 78 80 81 82. Higher scale value appears in: 83 84 85 86.



CURRICULUM OBJECTIVE SHEET	ū.		Page 1 of 2
Type of Objective, Skill		Factor VI	No. 80
Skill or Knowledge Category_	Decision Making of	n Methods -	Scale Value 3.0
Occupation Quality Assurant	e Technician	,	Level _2_
Rears to Task Code No(s).:	78 173 175 178 1	87 524 527 533 536	538 553 554
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'Is there Cross Reference?	Ver(v) No()	If yes see feetne	to(c)

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Selecting sources to refer to in order to complete missing information on radiographs or other diagnostic materials (Task 78).
- 2. Selecting further chacks of x-ray machine timers after spinning top test depending on the pattern of light and dark dots (Task 173).
- 3. Selecting means of informing staff of compensations needed in technical factor settings (changes on technique chart for unit, posting notice, telling staff personally) (Task 175).
- 4. Deciding whether to do spinning top test after noting timer problem during check; deciding whether to shut down unit or report problem to staff after checking and preparing fluoroscope unit for use (Task 178).
- 5. Deciding whether to have cassette checked for proper assembly after checking film-screen contact (Task 187).
- 6. Selecting steps for preventive maintenance of computerized transverse axial tomography unit based on type of equipment, what is regularly done, or request to investigate (Task 524).
- 7. Selecting steps to correct or check problem while retrieving, displaying, and/or copying computerized transverse axial scans based on type of equipment; selecting settings and controls appropriate to unit (Task 527).
- 8. Deciding whether to check that standard x-ray film processing conditions are in use in connection with check of automatic exposure termination of diagnostic x-ray equipment (Task 533).
- 9. Deciding on hand tools, sequence of checks in providing visual and/or manual inspection of diagnostic radiography system; deciding whether to readjust draping of cables (Task 536).

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Page 2 of 2

Type of Objective Skill - Factor VI No. Skill or Knowledge Cagegory Decision Making on Methods Scale V

Scale Value 3.0

Content Continued

- 10. Deciding whether to repeat HVL test at another kVp setting if equipment appears not to be within acceptable range in connection with check of filtration of diagnostic x-ray equipment (Task 538).
- 11. Deciding whether to have ion chamber or automatic charting equipment calibrated before use in reading film or TLD dosimeters; deciding number of dosimeters to use for calibration; deciding whether to have film dosimeters processed by staff member or do personally (Task 553).
- 12. Deciding how to prepare letter / reports and/or arrange interviews and follow up in cases of unusually high personnel dosage levels (Task 554).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices,—their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footwotes: See The Following Curriculum Objectives: Lower scale walue appears in: 71 72 73 74 75 76.

Same scale value appears in: 77 78 79 81 82. Higher scale value appears in: 83 84 85 86.



Page 1 of

Type of Objective Skill Factor III No. 81 | Skill or Knowledge Category Decision Making on Methods Scale Value 3.0 Occupation Radiologic Technologist Level 3 Refers to Task Code No(s): 81 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526 Is there Cross Reference? . . Yes(X) . . . No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding whether to recommend "retakes" of radiographs or additional views based on requisition sheet orders while providing technical quality review of "plain film" radiographs; deciding whether to ask opinion of radiologist about adequacy for diagnostic purposes; deciding whether to assist technologist or explain what is needed; deciding whether to report to supervisor (Task 81).
- 2. Deciding whether to bring to attention of radiologist missing or inadequate information or possible contraindications, or to ask about information to help in positioning or care of patient; deciding whether to personally prepare any materials or supplies; deciding whether to arrange for isolation or decontamination procedures, whether to assist in transporting patient from holding area and/or to out from examination table or have co-worker assist; selecting appropriate steps to accommodate patient's condition and mobility—in tasks involving tomography and/or contrast media where radiologist is in charge (all tasks listed except Task 81).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 71 72 73 74 75 76. Same scale value appears in: 77 78 79 80 82. Higher scale value appears in: 83 84 85 86.



Type of Objective Skill Factor
Skill or Freedom Decision Making on Mothods

ctor A No. 82

Skill or Knowledge Category Decision Making, on Methods Occupation Administrative Technologist

Scale Value 3.0 Level 3

Refers to Task, Code No(s): 76 131 132 165 186 272 277 293

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding supplies to order based on information on supplies on hand and requests for supplies (Task 76).
- 2. Deciding whether to reassign staff members to duties and/or to ask supervisor for additional help (Task 131).
- 3. Deciding whether furniture or equipment needs to be repaired by assessing personally or obtaining information from staff (Task 132).
- Determining whether staff member has been excessively absent, late, or abusive of lunch and/or break times; deciding whether to raise issues personally or inform supervisor (Task 165).
- 5. Deciding what procedures are relevant to new staff and should be included in orientation (Task 186).
- 6: Deciding what characteristics such as urgency, degree of seriousness of condition to take account of in preparing patient schedule (Tasks 272, 277).
- 7. Deciding whether a meeting is necessary with supervisor to discuss own problems or problems with own subordinates (Task 293).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications (for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: 'See The Following Curriculum Objectives:

Lower scale value appears in: 71 72 73 74 75 76. Same scale value appears in: 77 78 79 80 81.

Higher scale value appears in: 83 84 85 86.



CURRIGULUM OBJECTIVE SHEET			· · · · · · · · · · · · · · · · · · ·		rage I or .
Type of Objective Skill		F	actorIV	No.	· 83
Skill or Knowledge Category	Decision	Making on Met	hods	Scale	Value 4.5.
Occupation Patient Care Aid					Level 1
Refers to Task Code No(s) .:	73 113 13	38 290	•		
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In there from Peterence?	Vac(v)	No() If ye	el see foot	note(e)	-

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- Deciding how to reassure patient or accompanying adult about procedures, explain what will happen, answer questions (Tasks 73, 113, 290).
- 2. Deciding what to bring to physician's attention regarding symptoms or concerns manifested by patient (Task 138).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 71 72 73 74 75 76 77 78 79 80 81, 82. Same scale value appears in: 84 85. Higher scale value appears in: 86.

CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective Skill	•	Factor `VI	No. <u>84</u>
Skill or Knowledge Category	Decision Making	on Methods	Scale Value 4.5
Occupation Quality Assuran	ce Technician		Level2
Refers to Task Code No(s).:	276 525 529 530	531 532 534 535 53	7 539 540 543 5 44
545 548 549 5501556		•	
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·Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding how to locate source of problem in automatic x-ray film processor; deciding whether to do minor repair personally or have repairs done (Task 276).
- 2. Deciding on checks to make after having encountered problems in check of calibration and accuracy of computerized transverse axial tomography equipment (Task 525).
- Selecting appropriate test procedures and sequences based on options available, type of equipment, and other tests to be run on diagnostic x-ray equipment (all tasks listed except Tasks 276 and 525).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 71 72 73 74 75.76 77 78 79 80 81 82. Same scale value appears in: 83 85. Higher scale value appears in 86 and level 5.

Type of Objective Skill . Factor III No 85

Skill or Knowledge Category Decision Making on Methods Scale Value 4.5

Occupation Radiologic Technologist Level 3 .

Refers to Task Code No(s) .: 355 356 357 358 359 360 361 362 363 364 365 366 367

368 369 491 492 493 494 495 496

Is there Cross Reference? ... Yes(X) ... No(') If yes, see footnote(s) . ,

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

- 1. Deciding on accessory equipment, technical factors, shielding, and immobilization equipment appropriate for patient's age, sex, size, condition, and the examination ordered; deciding whether to order isolation procedures (all tasks listed above).
- 2. Deciding whether to bring to attention of supervisor or radiologist missing or inadequate information, or possible contraindications, or ask staff about limitations on patient's mobility—in "plain film" procedures where radiologist is not generally present (all tasks listed above except Task 369).
- 3. Deciding whether any exposures can be eliminated, whether patient can be examined in the standard positions called for, or whether to substitute alternative positions to achieve the same projections and accomplish the purpose of the examination (all tasks listed above except Task 369).
- 4. Deciding whether to provide emergency care or call parient's condition to attention of physician (all tasks listed above except task 369).
- 5. Deciding what mobile diagnostic x-ray unit is most appropriate, taking account of examination ordered, exposure technique, flexibility needs in positioning line voltage available; deciding where to place equipment at patient's bedside (Task 369).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 71 72 73 74 75 76 77 78 79 80 81 82. Same scale value appears in: 83 84 and level 4. Higher scale value appears in: 86 and level 5.



CURRICULUM OBJECTIVE SHEET	•		<u>-^_</u> *		P	age l of _
Type of Objective Skill			Factor	_ IV _	No.	86
Skill or Knowledge Category	Decision	Making on	Methods		Scale	Value 7.0
Occupation Patient Care T	echnician	•	7			Level 2
Refers to Task Code No(s) .:	_296					
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Is there Cross Reference? .	Ye ફ (X)	.No() If	yes; see	footnot	e (s).	,

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising a choice over how to carry out the following task activities by choosing the appropriate option regarding what to do, what to use, or how to do the activities as appropriate to the instances of the tasks as they present themselves, and within the guidelines provided for making the choice. The tasks or activities in which this skill must be exercised are as follows:

1. Deciding what procedures to carry out in providing first aid or emergency care to patient based on own examination of patient to determine the nature and severity of symptoms (Task 296).

To accomplish appropriate decision making on methods the student must be able to indicate the variety of situations likely to occur which would require making the choices, must be able to specify the choices available, and must be able to state what appropriate guidelines there are in order to accomplish the tasks successfully. The student should be able to list the choices, their indications for use and their contraindications, and must be able to provide justifications for the choices.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85.
Same scale value appears in level 4 of patient care and level 5.



CURRICULUM OBJECTIVE SHEET				Page 1 of 1
Type of Objective Skill		Factor	IV	No. <u>87</u>
Skill or Knowledge Category	Decision Makin	g on Quality		Scale Value 1.5
Occupation Patient Care Aid			,	Level <u>1</u>
Refers to Task Code No(s).:		<u> </u>		
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Is there Cross Reference?	.Yes(X)No()	If yes, see	footn	ote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

1. Taking care to attend to patient's comfort while assisting physician or co-worker in special examination or treatment procedure (Task 153).

To accomplish appropriate decision making on quality the student must be able to indicate the miminum standards for acceptable performance of the task or for the outputs of the task, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Same scale value appears in: 88.
Higher scale value appears in: 89 90 91 92 93 94 95 96 97 98 99 100 101.102 103 104 105.

	CURRICULUM OBJECTIV	VE SHEET								age i.	OI	<u>1</u>
•	Type of Objective	Skill		• •		Fact	or	ĨV	No.	88	,	_
	Skill or Knowledge	Category	Decision	Making	on	Quali	ity		Scale	Value	1.5	_
	Occupation Patie	ent Care Te	chnician	•						Level	2	
	Refers to Task Code	e No(s).:_	198			,						_
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	Is there Cross Refe	erence?	Yes(X)	No()	If ·	yes,	see	footno	te(s).	•		

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitide provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

1. Taking care to measure out medication to be administered orally (when quantity will be checked) (Task 198).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the task or for the outputs of the task, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 87.

Higher scale value appears in: 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105.



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Refers to Task Code	Ņο(β).: _	193 199						
Occupation <u>Patient</u>	Care Aic	le					Level	1;
Skill or Knowledge C	ategory_	Decision	Making on	Quality .			Y alue	
Type of Objective	Skill	· · ·		Factor		No.	.89	
CURRICULUM OBJECTIVE	SHEET,		•		•		Page 1	of 1

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In readying patient for examination, taking care to position patient so that area to be exposed is accessible (Task 193).
- In evaluating vital signs, taking care to note and report those that appear abnormal (Task 199).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 87 88. Same scale value appears in: 90 91 92.

Higher scale value appears in: 93 94 95 96 97 98 99 100 101 102 103 104 105.



CURBICULUM OBJECTIVE SHEET					Page I	01 T
Type of Objective Skill		Factor	IV -	No:	90	<u> </u>
Skill or Knowledge Category Dec	ision Making	on Quality		Scale	Value_	2.0
Occupation Patient Care Techn	ician				Level	_2_
Refers to Task Code No(s) .: 308						
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To there Cross Reference? Voc	(V) No()	If yes son	footno	ta(e)		

carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised to as follows:

1. In monitoring patient's ECG, taking care to note and report any known emergency signs or unusual readings (Task 308).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the task or for the outputs of the task, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in; 87 88.

Same scale value appears in: 89 91 92.

Higher scale value appears in: 93 94 95 96 97 98 99 100 101 102 103 104 105

CURRICULUM OBJECTIVE SHEET		•		Page	l of l
Type of Objective Skill		Factor	VI	No9	1
Skill or Knowledge Category	Decision Making	on Quality	•	Scale Valu	ie <u>2.0</u>
Occupation Quality Assuran	nce Aide		•	Leve	el 1 .
Refers to Task Code No(s) .:	275 297	· .		·	•
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Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In preparing subtraction prints, taking care during the various stages to evaluate the output using own high standards of quality (Task 275).
- 2. In obtaining computer control card for serial cassette changer, taking care to check that card is not mutilated (Task 297).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 87 88.

Same scale value appears in: 89 90 92.

Higher scale walue appears in: 93 94 95 96 97,98 99 100 101 102 103 104 105.

CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Skill	Factor	
Skill or Knowledge Category	Decision Making on Quality	Scale Value 2.0
Occupation Radiologic T	echnologist	Level 3
Refers to Task Code No(s) .:	464	
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Is there Cross Reference? .	Yes(X)No() If yes, se	e footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. in which this skill must be exercised are as follows:

In providing technical assistance for a fluoroscopic examination of a patient, taking care to preselect appropriate technical factors for spot filming and TV brightness controls for preliminary viewing; being careful to tell physician about any apparent contraindications to examination based on review of requisition sheet (Task 464).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the task or for the outputs of the task, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judement on when and where to exceed minimum standards of quality.

Cross Reference Footnates: See The Following Curriculum Objectives: Lower scale value appears in: 87 88. Same scale value appears in: 89 90 91. Higher scale value appears in: 93 94 95 96 97 98 99 100 101

<u>· CURRICULUM OBJĘCTIVE S</u>	HEET	**		. (ì	Page	<u>e 1</u>	<u>of 2</u>
	Skilļ	,	·				Fac		IV		No.	9	3.	
Skill of Knowledge Cat	egory_	Deci	sior	Mak	ing	on' (Quali	Lty			Scal	e Va	lue_	3.5
Occupation Patient Ca	are Aid	le ´									•	Le	vel	1
Refers to Task Code No	(s,).:	166	262	278	281	282	283	290	291	292	302	303	490	520
521			•				•	ı				_		

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be acheived. Activities in which this skill must be exercised are as follows:

- 1. In us isolation and decontamination techniques to prepare an examination or treatment room or area and/or clean up afterwards, taking care to be thorough in disposing of contaminated materials and in following personal isolation technique (Task 166).
- 2. In taking an ECG of any patient, taking care to properly standardize machine beforehand (Task 262).
- In requesting no recurrence in the future of nonappearance of patients for examinations or treatment, taking care to speak to supervisor in a manner to elicit cooperation (Task 278).
- 4. In attaching cards to patients' garments' indicating special conditions requiring isolation technique or other special care, taking care to be sure co-workers are aware, such as notifying them personally in addition to attaching cards to patients (Task 281).
- 5. In escorting adult patient to and/or from dressing rooms, treatment rooms, and/or waiting areas, taking care to note whether patient needs assistance in undressing, and providing assistance to patient (Task 282).
- 6. In reinforcing wet dressing or applying dry dressing, taking care to apply neatly and for least painful later removal (Task 283).
- In changing a patient's colostomy bag, taking care to be thorough in cleansing stoma and other soiled parts of patient's body (Task 290).
- 8. In taking a non-pediatric patient's temperature with an oral thermometer, taking care that thermometer is correctly placed and held in patient's mouth (Task 291).
- 9. In examining appearance of fresh stool or urine specimen, taking care to determine what to report to the staff member who asked for evaluation of appearance of specimen (Tasks 292, 303).

CURRICULUM	OBJECTIVE	SHEET	(continued)
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Page 2 of 2

Type of	f Objective	Skill			Factor	1V	No.	93
Skill (or Knowledge	Cagegory	Decision 1	Making on	Quality		Scale	Value 3.5

Content Continued

- 10. In placing or making a call for a patient, taking care to determine, deliver, and/or relay message accurately (Task 302).
- 11. In mummying or wrapping a pediatric patient, making sure that restraint is snug, not too tight, and that limbs are in proper, alignment without discomfort to patient (Task 490).
- 12. In preparing a patient and attaching electrodes for ECG monitoring, being careful to ask for additional information if orders are not clear (Task 520).
- 13. In applying digital or manual pressure to a patient's puncture site, taking care in instructing patient on how to handle renewed bleeding after performer leaves (Task 521).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92.

Same scale value appears in: 94 95 96 97 98.

Higher scale value appears in: 99 100 101 102 103 104 105.



_	CURRICULUM OBJEC	TIVE SHEET	<u> </u>			<u> </u>	rage 1	<u>ot 1</u>	
	Type 🗗 Objectiv	e Skill			Factor	IV No.	94		
	Skill or Knowled	ge Category_	Decision	Making on	Quality	Scal	e Value	3.5	
	Occupation Pat	ient Care Te	chnician				_ Lawel	_2_	
	Refers to Task C	ode No(s).:	18 33 65	280 298 5	22_	-	_		
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		·	•				,		
	Is there Cross R	eference?	.Yes(X)	.No() I	ves, see	footnote(s)	•	•	

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In drawing blood from a non-pediatric patient's vein, being careful to select the appropriate vein, puncture properly, or ask for help if performer has difficulty in finding the vein (Task 18).
- 2. In removing a patient's sutures, taking care to examine the sutured area and note the condition and healing; deciding to irrigate or have antibiotics prescribed when appropriate (Task 33).
- 3. In preparing speciment for the laboratory, taking care in handling when picking out tissue fragments or dealing with bronchial washings (Task 65).
- 4. In participating in monitoring of personal exposure to radiation, being alert to possible accidental or excessive personal exposure; notifying designated staff member (Task 280).
- 5. In administering medication orally to any patient without prior check by physician, taking care to measure carefully and check for any signs of deterioration prior to administering (Task 298).
- 6. In applying a pressure dressing to a puncture site, taking care to note whether wound shows appearance of problem such as lack of pulse, hematoma, swelling; reporting this at once (Task 522).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 87 88 89 90 91 92.
Same scale value appears in: 93 95 96 97 98.
Higher scale value appears in: 99 100 101 102 103 104 105.

CURRICULUM OBJECTIVE SHEET		Page 1 of 2
Type of Objective , Skill '	Factor VI	No. 95.
Skill or Knowledge Category' Decision Ma	king on Quality	Scale Value 3.5
Occupation Quality Assurance Aide		. Level 1
Refers to Task Code No(s):: 8 70 71 72 8	0 95 134 135 147 167 192	223 227 260 269
273 284 286 304 319 354 551 552 1 2		

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In shutting down computerized transverse axial tomography equipment, taking care to note whether there are any problems with equipment (Task 8).
- 1. In readying x-ray film hand or automatic processing equipment for use, taking care to check for signs of contamination, dirt, or exhaustion of developer and fixer solutions and water bath (Tasks 70, 273).
- 3. In processing x-ray films manually, taking care to agitate films to loosen air bubbles (Task 71).
- 4. In loading or processing x-ray films, taking care to handle films to avoid creating artifacts (Tasks 71, 72, 269, 551, 552).
- In preparing procedure trays, checking for emergency supplies, or readying emergency cart, taking care to check the condition of equipment and medications (Tasks 80, 227, 304).
- 6. In testing urine sample using tablet method, taking care to measure out exact amount of drops of water and urine (Task 95).
- 7. In recording information for record keeping, billing, or instruction, taking care to obtain all missing information and make any relevant special notations (Task 134).
- 8. In cleaning an examination or treatment room after use, taking extra care to clean up any items or areas that may have been contaminated (Task 135).
- 9. In preparing or changing a technique chart for a specific x-ray machine, taking care to make a new chart if the existing one is worn or has many changes on it; taking care to make sure all appropriate staff are aware of changes (Task 147).
- 10. In inspecting and cleaning intensifying screens in x-ray film cassettes, taking care to separate all those that require cleaning from those that should be replaced (Task 167).



CURRICULUM OB.	JECTIVE S	HEET (contir	nued) ,			Page 2	of	2
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Skill or Knowledge Cagegory Decision Making on Quality / Scale Value 3.5

Content Continued

- 11. In preparing xeroradiography equipment for use, being careful to note any problems with quality of test xeroradiograph (Task 192).
- 12. In making unoccupied bed or stretcher bed, taking care to have bed neat and bedding properly tucked in and smooth (Task 223).
- 13. In preparing syringe with medication to be injected, checking expiration date, any signs of deterioration (Tasks 80, 227, 260, 304).
- 14. In checking oxygen or suction equipment, deciding to clean of there is any possibility that equipment may need it (Tasks 284).
- 15. In folding and storing linens, taking care to do this neatly (Task 286).
- 16. In applying print coater to photographs, taking care in handling and stacking prints so as not to mar (Task 319).
- 17. In obtaining patient records for use in procedure or conference, taking care to check for and/or obtain all relevant records (Task 354).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92.

Same scale value appears in: 93 94 96 97 98.

Higher scale value appears in: 99 100 101 102 103 104 105.



CURRICULUM OBJECTIVI	E SHEET		-	•	·				· I	age 1	<u>ot</u>	2
	Skill		-	. •	Facto	r_V	I	N	٥	9	6	_
Skill or Knowledge	Category	Decision	Making	on Q	uality)	Sc	ale	Value	3.5	_
Occupation Quality	Assuranc	ce Techni	cian		,	7		_ ^		Level		_
Refers to Task Code	No(s).:	78 173 1	75 178	187 2	76 28Q	523	524	534	536	538	554	
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Is there Cross Refe	rence?	Yes(X)	No() If	ves. s	ee fo	otn	ote(s).			

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- .1. In jacketing patient's radiographs and other diagnostic information, taking care to check for and obtain all missing information (Task 78).
- 2. In checking x-ray machine timers with spinning top test, taking care to assess test films properly and note any problems of timer accuracy or other problems independent of timer accuracy (Task 173).
- 3. In carrying out penetrometer check of x-ray machine calibration, taking care to assess results of test (Task 175).
- 4. In checking, preparing fluoroscope controls or inspecting diagnostic radiography system visually and manually, taking care to note any problems (Tasks 178, 536).
- 5. In checking film-screen contact in x-ray cassettes, taking care to evaluate test films (Task 187).
- 6. In making minor adjustments or repair of automatic film processor, taking care to locate source of problems, handle parts with care when making adjustments (Task 276).
- 7. In participating in monitoring of personal exposure to radiation, being alert to possible accidental or excessive personal exposure; notifying designated staff member (Task 280).
- •8. In preparing computerized transverse axial tomography equipment for use, taking care to note whether there are any problems with equipment (Task 523).
- 9. In providing preventive maintenance for computerized transverse axial tomography equipment, making sure that no unauthorized persons are in room; taking care to note condition of equipment (Task 524).
- 10. In inspecting shielding devices and garments, being careful to discard or replace items that do not appear to meet test standards (Task 534).



CURRICULUM OBJECTIVE	SHEET:	(continued))
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Page 2 of 2

Type of Objective Skill Factor VI No. 96
Skill or Knowledge Cagegory Decision Making on Quality Scale Value 3.5

Content Continued

- 11. In testing adequacy of diagnostic x-ray equipment filtration, taking care to assess test results and decide what to do (Task 538).
- 12. In entering, evaluating occupational radiation exposure data, taking care to review radiation protection standards; taking care to word letters/ or reports to accurately reflect the situation (Task 554).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92.

Same scale value appears in: 93 94 95 97 98.

Higher scale value appears in: 99 100 101 102 103 104 105.



CURRICULUM OBJECTIVE SHEET		·			rage I of I
Type of Objective Skill:		Factor	4II	No.	97
Skill or Knowledge Category	Décision Making	on Quality		Scale	Value 3.5
Occupation Radiologic Tech	hnologist			<u> </u>	Level 3
Refers to Task Code No(s) .:	280 369				
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Is there Cross Reference?	Yes (X) No()	If ves see	footne	te(s).	1

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In participating in monitoring of personal exposure to radiation, being alert to possible accidental or excessive personal exposure; notifying designated staff member (Task 280).
- 2. In selecting and positioning mobile x-ray equipment for bedside use, taking care to consider the exposure technique, the likely flexibility needed in positioning patient, and the line voltage available in the patient's location (Task 369).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92.

Same scale value appears in: 93 94 95 96 98.

Higher scale value appears in: 99 100 101 102 103 104 105.

CURRICULUM OBJECTIVE SHEET		Page I of I
Type of Objective Skill	· Factor A	No. 98
Skill or Knowledge Category	Decision Making on Quality	Scale Value 3.5
Occupation Administrative	Technologist	Lev e l <u>3</u>
Refers to Task Code No(s) .:	76 128 129 131 132 165 277 294	<u> </u>
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Te there Cross Reference?	Yes (Y) No() If was see footh	ote(s)

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In checking supplies and ordering, taking care to get complete information on requests, using judgment on amounts to order (Tasks 76, 129).
- 2. In checking supply of narcotics or regulated drugs, taking care to investigate discrepancies in inventory (Task 128).
- 3. In scheduling staff or patients, taking care to consider all the relevant circumstances as appropriate (Tasks 131, 277).
- 4. In assessing need to request services, replacement, or repair of equipment, taking care to obtain all necessary information (Task 132).
- 5. In deciding if employee's lateness, absenteeism, or use of lunch and break times is excessive, being careful in making assessment (Task 165).
- 6. In assigning task to staff member, taking care to be sure individual understands what is needed (Task 294).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale Value appears in: 87 88 89 90 91 92. Same scale value appears in: 93 94 95 96 97. Higher scale value appears in: 99 100 101 102 103 104 105.



 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective Skill
 Skill or Knowledge Category Decision Making on Quality
 Factor III
 No. 99

 Skill or Knowledge Category Decision Making on Quality
 Scale Value 5.5

 Occupation Radiologic Technologist
 J
 Level 3

 Refers to Task Code No(s): 355 356 357 358 359 360 361 362 363 364 365 366 367

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 389 390 463 465 466 467 468 491 492 493 494 495 496 497 498 499 (*continued below)

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

- 1. In taking radiographs of patients, taking care to review requisition and patient information for possible insufficiency of information, contraindications, or anything else that should be brought to attention of radiologist (all tasks listed).
- In taking radiographs of patients, taking care to check on materials and equipment and set up before having patient enter examination room; checking contrast media for chemical deterioration (all tasks as appropriate).
- In taking radiographs of patients, taking care to treat patients with dignity and concern; informing patient of what will happen; reassuring; answering questions (all tasks listed).
- 4. In taking radiographs of patient, taking care to measure patient with calipers to select appropriate technical factors; selecting minimum rexposure compatible with diagnostic quality (all tasks listed).
- 5. In taking radiographs of patient, taking care to adjust technical factors for special considerations of patient's size, condition, the use of magnification, or posted changes (all tasks listed).
- 6. In taking radiographs of patients, taking care not to move patient in any way that might be harmful, painful, or needlessly uncomfortable; selecting alternative position if appropriate (all tasks listed).
- 7. In taking radiographs of patient, taking care to select and apply immobilization devices to prevent patient movement but not interfere with breathing and circulation (all tasks listed).
- 8. In taking radiographs of patient, taking care to handle IV drip, oxygen supply or catheters with care; assisting patient; being alert to any signs of pain, adverse reaction to focedure, contrast medium; taking care not to leave patient unattended or liable to fall off table (all tasks as appropriate).

CURRICULUM OBJECTI	IVE SHEET	(continued)	·		_	Page :	2 of
Type of Objective	Skill		• Factor	III	No.	99	•

Skill or Knowledge Cagegory Decision Making on Quality Scale Value 5.5

Content Continued

- 9. In taking radiographs of patient, taking came to supply shielding to patient's gonads and radiosensitive areas; supplying shielding to any staff who will be present during exposure (all tasks as appropriate).
- 10. In taking radiographs of patients, collimating to the area of interest (all tasks listed).
- 11. In taking radiographs of patients, making note of radiologist's density preferences or equipment problems to avoid need to redo examinations (all tasks listed).
- 12. In taking radiographs of patients, making sure that any "retakes" ordered are for medical-diagnostic purposes (all tasks listed).
- 13. In taking radiographs of patients, taking care to note any problems with equipment and report (all tasks listed).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92 93 94 95 96 97 98. Same scale value appears in: 100.

Higher scale value appears in: 101 102 103 104 105.

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CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor A No. 100 Skill or Knowledge Category Decision Making on Quality Scale Value 5.5
Occupation Administrative Technologist Scale Value 5.5
Refers to Task Code No(s): 293

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the esponsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

1. In attending a private meeting with supervisor, taking care and responsibility in entering fully into discussion of problems raised by supervisor or raising own problems and participating in discussion about what to do (Task 293).

To accomplish appropriate decision-making on quality the student must be able to indicate the minimum standards for acceptable performance of the task or for the outputs of the task, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92 93 94 95 96 97 98.

Same scale value appears in: 99.

Higher scale value appears in: 101 102 103 104 105.

<u>CURRICULUM OBJECTIVE</u>	SHEET •				•]	Page 1	of	1
Type of Objective	Skill '	· ·	•	Factor	IV-	No.	101		_
Skill or Knowledge Car	tegory De	cision	Making on	Quality		Scale	Value	7.0	Ę
,Occupation Patient (V-e-	- -		Level	1	-,
Refers to Task Code No	o(s): 73	74 113	138 190 2	87 289 295	301				_
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Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In reassuring a patient or family member, or explaining about diagnostic radiography procedures, or explaining procedures to follow at home prior to coming for examination, making sure that the individual understands what is being said or is reassured to 74, 113).
- 2. Being alert to notice any symptoms or asking about any concerns manifested by patient that should be brought to the attention of physician or staff, and being careful to report accurately (Task 138).
- 3. In assisting patient, being careful to handle patient properly and safely so as not to harm patient (Task 190).
- 4. In feeding patient, taking care to assist patient as appropriate to patient's condition and needs (Tasks 287, 289).
- 5. In participating in meeting of nursing personnel in x-ray department, taking responsibility for raising issues and problems; expressing opinions, and being actively involved in the progress of the meeting (Task 295).
- 6. In diapering a baby, being careful to clean and dry patient, thoroughly (Task 301).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the butputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality

Cross Reference Footnotes: See The Hollowing Curriculum Objectives: Lower scale value appears in: 87 88 89 90 91 92 93 94 95 96 97 98 99 100. Same scale value appears: 102 103 104 105.

CURRICULUM OBJECTIVE SHEET		· _	Page Lot L
Type.of Objective Skil	1	Factor IV	No. 102
Skill or Knowledge Categor	y Decision Making	on Quality	Scale Value 7.0
Occupation Patient Care		1	Level <u>2</u>
Refers to Task Code No(s)	: 133 143 156 181/18	2 185 243 296 299	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In administering a subcutaneous or intramuscular injection, taking care to explain name and purpose of medication and possible side effects, to check patient allergy, and to consider whether there are contraindications in regard to use or dosage; taking care to select appropriate site of injection (Tasks 133, 299).
- 2. In catheterizing a patient's urethra, taking care to reassure patient, follow sterile technique, cleanse patient, insert gently and terminate if there is severe pain or if resistance is encountered to passage of catheter (Tasks 143, 181).
- 3. In irrigating or dressing a wound, burn, or opening for catheter, taking care to assess healing and conditions of wound before proceeding; using proper medications and materials (Task 156).
- 4. In setting up and using suction machine, taking care to reassure patient and explain; being careful in using suction; continuing until passage is cleared (task 182).
- In administering oxygen to patient, being careful to assess patient's response, determine when to administer and when to remove oxygen; reassuring patient (Task 185).
- 6. In restraining patient, being careful to reassure and calm patient in addition to using restraints (Task 243).
- 7. In providing first aid to patient, acting carefully, quickly, calmly, and accurately to assess condition, decide on and carry out care (Task 296).
- To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 87 88 89 90 91 92 93 94 95 96 97 98 99 100.
Same scale value appears in: 101 103 104 105 and level 4 of patient care.



CURRICULUM OBJECTIVE SHEET				rage I	<u> </u>
Type of Objective Ski		Factor V	I No.	103	
Skill or Knowledge Category	Decision Making o	n Ouality	Scale	Value 7	.0_
OccupationOuality Assura				_Level	2
Refers to Task Code No(s).	525 527 529 530 5	31 532 533 535	537 539	<u>540 543</u>	<u>544</u> .
545 548 549 550 553 556		·			
			· · · · · · · · · · · · · · · · · · ·		
Is there Cross Reference?	\dots Yes(X) \dots No()	If yes, see for	otnote(s).		

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In checking calibration of computerized transverse axial tomography equipment, taking care to select appropriate test procedure, carry out check carefully, assess results, and make adjustments (Task 525).
- 2. In retrieving, displaying and copying computerized transverse axial scans, being careful to select appropriate display controls to provide diagnostic information; selecting and photographing sufficient displays using all appropriate display options (Task 527).
- 3. In testing x-ray equipment, or film, or film processors, or calibrating quality assurance test instruments, being careful to select appropriate test procedures for the equipment involved, carry out each test step carefully, record results accurately, assess results conscientiously, and discuss results with supervisor and/or radiologist in charge so as to assure that patient exposure is minimized, diagnostic reliability is provided, and legal requirements are met (Task 529, 530, 531, 532, 533, 535, 537, 539, 540, 543, 544, 548, 549, 540).
- 4. In monitoring patient exposure rates for routine diagnostic x-ray procedures, carrying out procedures carefully and accurately; recommending how to use gonadal shielding; helping to use results to make it possible to record cumulative patient exposure (Task 545).
- 5. In conducting radiation protection survey, carrying out procedures carefully and accurately; evaluating results conscientiously; using results to suggest the safest positions in room for personnel who must remain during exposure; suggesting corrective measures (Task 550).
- 6. In processing thermoluminescent or film personnel monitoring dosimeters, following procedures carefully, choosing appropriate steps; noting unusually high exposure readings and bringing to attention of appropriate supervisor (Task 553).

CURRICULUM OBJECTIV	VE SHEET ((continued)		,		•	Page 2	of	- 2
Type of Objective	S ¥ 11			Factor	VI	No.	103		_
Skill or Knowledge	Gagegory	Decision Ma	aking on	Quality		Scale	V alu e	7.0	<u> </u>
•								-	**

Content Continued

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitive tude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 87 88 89 90 91 92 93 94 \$5 96 97 98 99 100.

Same scale value appears in: 101 102 104 105 and levels 4 and 5.

CURRICULUM OBJECTIVE	SHEET							<u>Page l</u>	
Type of Objective		v • _	• •	4	Factor	III		. 104	
Skill or Knowledge C		Decision	Making	on	Quality	t	Scale	Value_	7.0
Occupation Radiolog					•	•	·	Level	3
Refers to Task Gode	No(s).:	81 353			1		• •	<u> </u>	
					•				
,	<u>, </u>	· •							
Is there Cross Refer	ence?	Yes(X)	No()	If	yes, see	footno	te(s).	_ `	\

carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In assessing the technical quality of "plain film" radiographs, being careful to take account of the purpose and type of study, appropriate diagnostic standards, evidence of proper collimation and use of shielding; being careful to order retakes only if medically warranted; explaining problems carefully so as, to instruct technologist whose work is being reviewed (Task 81).
- 2. In participating in meeting of technologists in x-ray department, taking responsibility for raising issues and problems; expressing opinions and being actively involved in the progress of the meeting (Task 353).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower to value appears in: 87 88 89 90 91 92 93 94 95 96 97 98 99 100.
Same scale value appears in: 101 102 103 105 and levels 4 and 5.



CURRECULUM OBJECTIVE SHEET	<u></u>		Page 1 of 1
Type of Objective Ski	11	Factor A	`No. 105 "
Skill or Knowledge Categor	ry <u>Decision Making</u> ön	Quality	Scale Value 7.0
Occupation Administrative			Level 3
Refers to Task Code No(s)	.: 186 272		
•			
•			
Is there Cross Reference?	Yes(X)No(_) If	yes, see footn	ote(s).

Content: A graduate of the program at this educational level must be able to carry out the responsibility of exercising control over the quality of his or her task performance in the area of latitude provided between minimum standards and the highest possible quality that can be achieved. Activities in which this skill must be exercised are as follows:

- 1. In orienting a new staff member, being careful to select all the information needed; presenting carefully and making sure new employee comprehends (Task 186).
- 2. In course of work after scheduling patient procedures, being careful to check on the appropriateness of the schedule on a given day to eliminate undue waiting time for patients or to avoid having idle examination rooms (Task 272).

To accomplish appropriate decision making on quality the student must be able to indicate the minimum standards for acceptable performance of the tasks or for the outputs of the tasks, must be able to indicate what latitude above the minimum standards is available to the performer to improve the quality, and must be able to indicate what priorities should be used to exercise judgment on when and where to exceed minimum standards of quality.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 87 88 89 90 91 92 93 94 95 96:97 98 99 100.
Same scale value appears in: 101 102 103 104 and level 4.

CURRICULUM OBJECTIVE SHEET			Page 1	OI I
Type of Objective Skill	Factor	IV	vo. 106	
Skill or Knowledge Category Figural Skills	_		ale Value	1.0
Occupation Patient Care Aide			Lev e l	1
Refers to Task Code No(s).: 262 271		T		
· · · · · · · · · · · · · · · · · · ·				
Is there Cross Reference?Yes(X)No() If	yes, see	footnote	(s).	

Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density or arrangement in the following activities:

1. Standardizing ECG machine and checking that recording is of adequate quality; deciding when partient's reading looks irregular (Tasks 262, 271).

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the degree of figural mental precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scalé value appears in: 107 108 109. Higher-scale value appears in: 110 111.112.



CURRICULUM OBJECTIVE SHEET	,					Page 1 of A
Type of Objective Skill			Fact	or IV	No.	107
Skill or Knowledge Category	Figural	Skills		,	Scale	Value 1.0
Occupation Patient Care T	echn i cian		-			Level 2
Refers to Task Code No(s) .:	308	_		, ,	-	·
				-		•
				-		
. Is there Cross Reference? .	Yes(X)	No.(,)	If yes,	see footn	ote(s).	

Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, at rangement in space, in static array or in motion, to achieve predetermined figural standards or objectives of size, shape, form, density or arrangement in the following activities:

1. Adjusting ECG visual display on oscilloscope screen so that tracings are centered and clear; including image of appropriate number of waves; standardizing machine and checking that recording is of adequate quality; deciding when ECG reading should be brought to physician's attention (Task 308).

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the degree of figural mental precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 106 108 109.

Higher scale value appears in: 110 111 112.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective
 Skill
 Factor
 VI
 No.
 108

 Skill or Knowledge Category
 Figural Skills
 Scale Value 1.0

 Occupation
 Quality Assurance Technician
 Level 2

 Refers to Task Code No(s).:
 78 175 524 527 529 530 531 532 533 534 535 536 538

 539 540 544 548 549
 544 548 549

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density, or arrangement in the following activities:

- Viewing processed radiographs or photographs and noting whether identification information is missing; adding missing information on appropriate part of radiograph or photograph (Task 78).
- 2. Evaluating and/or comparing densities on test films using test tools or penetrometers (Tasks 175, 540, 544).
- 3. Using forming template, marking out its shape on skirt of new headbag for computerized transverse axial squaner; placing headbag in approximate position to fit over fixing studs (Task 524).
- 4. Adjusting visual display on computerized transverse axial equipment to achieve diagnostic quality images by using controls for the white-gray-black scale or for color as available (Task 527).
- 5. Centering center of cassette, phantom, radiation detection device, beam attenuator, or other test object to x-ray beam by using light field indicator and cross-hair shadows for center of field; with cassettes, placing so that cassette and light field image sides are parallel (Tasks 529, 530, 531, 532, 533, 534, 538, 539, 540, 544, 548).
- 6. Determining the corners of an image recorded on film by locating points, drawing straight lines connecting points so that they intersect at right angles or define diagonals (Tasks 529, 530).
- 7. Adjusting oscilloscope display to obtain clear kVp waveform image with base line at bottom of scale and trace peak at top, with a complete waveform on horizontal scale; copying waveform display on graph paper (Task 535).
- 8. Using angle measures, protractor, T-square, and/or level to check accuracy of tube angle indicators and position scales of x-ray machine (Task 536).
- 9. Using carpenter's square to make manual check of grid alignment of film changer; in using test tool to check grid alignment, evaluating whether location of pin appears along centerline of grid (Task 539).

CURRICULUM OBJECTIVE SHEET (continued)

Type of Objective Skill Factor VI No. 108

Skill or Knowledge Cagegory Figural Skills Scale Value 1.0

Content Continued

- 10. Plotting film densities and examining characteristic curve (Task 544).
- 11. Noting location of light points during test of leakage radiation; planning exposure reading at every point; planning a series of exposures within a given plane; placing radiation detector in predetermined positions (Task 549).

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the degree of figural mental precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same 'scale value appears in: 106 107 109.

Higher scale value appears in: 110 111 112.



CURRICULUM OBJECTIVE SHEET	1 1		Page 1 of 1
Type of Objective Skill	Factor	III No.	109
Skill or Knowledge Category Figur	ral Skills	Scale	Value 1.0
Occupation Radiologic Technol			Level 3
Refers to Task Code No(s).: . 372	· · ·		
Is there Cross Reference? Yes (x	()No() If yes, 's	ee footnote(s).	

Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density, or arrangement in the following activities:

 Positioning x-ray tube so that central ray will be at right angles to center of film or at angle indicated by surgeon; indicating where sterile shielding should be placed to protect tissues from the primary path of the x-ray beam (Task 372).

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 106 107 108.
Higher scale value appears in: 110 111 112.



CURRICULUM OBJECTIVE	SHEET				-1	I	Page 1 of	1
	Skill	· · ·		Factor	VI	No.	110	
Skill or Knowledge	ategory	Figural Skills		•		Scale	Value 3.5	<u> </u>
Occupation Quality	Assuran	ce Technician		•	•		Level 2	
Refers to Task Code	No(s).:	525 537 545 550	у _					
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•		-						
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Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density, or arrangement in the following activities:

- 1. Using viewing controls to check that water appears properly on visual display in check of computerized transverse axial scanner; checking that shapes obtained are correct for settings selected; checking for similarity of paired scans, signs of misalignment, checking that white-to-gray-to-black steps are discernible as appropriate; checking centering of image on display (Task 525).
- 2. With tomography equipment, evaluating density variation on test films; checking factorized and overlaps in the case of multidirectional scans; using tape and plumb bob to check grid alignment; centering for radiographic check of grid alignment (Task 537).
- 3. Placing exposure detection devices in positions on phantom to simulate various parts of patient in order to monitor patient exposure rates (Task 545).
- 4. Planning or noting the beam directions to be used in survey, including direction of beam at primary barriers; planning and placing radiation detectors to measure scatter; positioning phantom, x-ray tube for test positions; drawing or using a floor plan of room showing test locations of target, controls, barriers, measurement points; preparing isodose curves using test results and floor plan (Task 550).

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the degree of figural mental precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 106 107 108 109.

Same scale value appears in: 111.

"Higher scale value appears in: 112 and level 5. ,



CURRICULUM OBJECTIVE SHEET Page 1 of 2

Content: A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density, or arrangement in the following activities:

- 1. Selecting appropriate size x-ray film based on size of patient, area of interest, use of magnification technique and number of projections to appear on film (all tasks listed as appropriate except 526).
- 2. In making several projections on one film, deciding how these will be spositioned so that film need not be turned for viewing each image (Tasks 355, 356, 357, 358, 359, 360, 361, 365, 366, 367, 491, 492, 493, 494, 496).
- 3. Selecting alternative positioning to obtain requested view of area of interest (all tasks listed except 526).
- 4. Positioning x-ray film in holder, cassette, bucky; or cassette halder; positioning the patient so that the part of the body to be radiographed is in position in relation to the film; centering part using light system; keeping the long axis of the part parallel to the film; with bucky, centering patient to midline; with film in holder or cassette on table, centering film to part; with upright holder, adjusting height of holder to part and centering part to film; positioning x-ray tube so that primary beam will enter the area of interest at the appropriate angle to project the view desired; collimating using light system so as to expose only area of interest (all tasks listed except 526).
- 5. Marking or defining anatomical reference lines to position skull or body with proper rotation and angulation (all tasks as appropriate).
- 6. In viewing computerized transverse axial scan, using controls on viewing unit or subroutine to adjust display to provide the best diagnostic information; adjusting display to the density range and median density on gray and/or color scales as appropriate to the tissues in the area of interest and possible pathological condition (Task 526).



ATTE TANK TRAIN	OBJECTIVE SHEET	/
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Type of Objective Sk111 Skill or Knowledge Cagegory Figural Skills

Factor

No. Scale Value .5

III

Content Continued

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the degree of figural mental precision necessary to achieve the standards.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lover scale value appears in: 106 107 108 109.

Sale Scale value appears in: 110.

Higher scale value appears in: 112.

* 502 5 504 505 506 507 508 509 510 511, 512 513 514 515 516 517 518 519 .526.

CURRICULUM OBJECTIVE SHEET			· ·	<u> </u>	•	Page I	<u>ot 1</u>
Type of Objective ' Skil	1	•	Factor	III	No.	<u> \$ 112</u>	<u> </u>
Skill or Knowledge Category	Figural	Skills			Scale	Value	5.0
Occupation Radiologic Tec			•		_	Level	3
Refers to Task Code No(s) .:				7	K :	6,	<u>.</u>
	, >-	. ,			3		3
	,		1	١.	•	<u> </u>	
Is there Cross Reference?	.Yes(X)	No()/	îf yes, se	e footn	ote(s).		

Content. A graduate of the program at this educational level must be able to mentally manipulate (with or without physically manipulating) the figural aspects of objects in terms of size, shape, form, density, arrangement in space, in static array or in motion, to achieve the predetermined figural standards or objectives of size, shape, form, density, or arrangement in the following activities:

- 1. In evaluating "plain film" radiographs, assessing whether the correct patient view and full area of interest is demonstrated, whether a need-lessly large area is wisible, whether appropriate shielding is evident; evaluating image to note artifacts, blurring, or distortion, judge when there is adequate detail and definition, and adequate density and contrast to provide the diagnostic imaging required for the examination (Task 81).
- 2. In positioning patient for tomography, considering the travel of the central ray and selecting position to minimize exposure of sensitive portions of the body not being examined, or deciding on shielding Task 374).
- Localizing the level of a lesion for tomography by working with frontal and lateral projections; locating marked center of area in any visible reference points; reproducing markings made on radiographs on patient's body; locating area of lesion on lateral view so that distance to table, above and below lesion can be estimated; determining level of initial "cut" (Task 374).

To accomplish this, the student must be able to state what figural standards must be achieved for each activity, and must be able to exercise the de-

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 106 107 108 109 110 111.

Same scale value appears in levels 4 and 5.

CURRICULUM OBJECTIVE SHEET				Page 1 or 1
Type of Objective Skill	L	Factor	VI No.	113
Skill or Knowledge Category	Symbolic Skills	<u>. </u>	Scale	Value_1.5
Occupation Quality Assura			<u> </u>	_ Level1
Refers to Task Code No(s) .:	134 147			<u> </u>
		, , <u>, , , , , , , , , , , , , , , , , </u>	•	
	0			
Is there Cross Reference?	Yes(X)No()	If yes, see	footnote(s)	
	7		•	•

Content: A graduate of the program at this educational level must be able to mentally manipulate and/or use symbols which afe part of an abstract, non-tepresentational system of notation where the symbols stand for properties, relationships, or operations in the following activities:

- 1. Tallying totals using arithmetic mulations and numerical symbols (Task 134).
- 2. Performing calculations appropriate to determine and list percentage changes; using arithmetic manipulations and numerical symbols (Task 147).

To accomplish this, the student must be able to indicate what each symbol represents, must be able to manipulate each as required, and be sufficiently accurate to meet the standards for the activities.

Cross Reference Footnotes: 'See The Following Curriculum Objectives: Same scale value appears in: 114 115.

CURRICULUM OBJECTIVE SHEET Page 1 of 1 Ski 11 114 Factor VI No. Type of Objective Skill or Knowledge Category Symbolic Skills Occupation Quality Assurance Technician Scale Value 1. Level

Refers to Task Code No(s).:<u> 173 175 525 529 530 531 532 535 536 537 538 539 543</u>

544 548 549 550 553 556 ***

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to mentally manipulate and/or use symbols which are part of an abstract, nonrepresentational system of notation where the symbols stand for properties, relationships, or operations in the following activities:

- Solving for unknown quantities with ratio equations based on known quantities; using arithmetic manipulations and numerical and algebraic symbols (Tasks 173, 530, 531).
- 2. Calculating quantities or rates by adding, subtracting, multiplying, or dividing using arithmetic manipulations and numerical symbols (Tasks 173, **17**5, 531, 532, 536, 538, 544, 548, 549, 553, 556).
- Comparing differences in numerical quantities and determining whether they fall within acceptable given limits using arithmetic manipulations and numerical symbols (all tasks except 173, 175).
- Using formula for magnification to solve equations for unknown portions of the formula to determine lengths and distances using arithmetic manipulations and numerical and algebraic symbols '(Tasks 529, 530).
- Performing calculations to determine percentage changes or differences using arithmetic manipulations and numerical symbols (Tasks 529, 531, **\$**39}.

Calculating averages using arithmetic manipulations and numerical symbols (Tasks 532, 535, 543, 544, 549, 553).

7. Following known formula such as for coefficient of variation, coefficient of linearity using arithmetic manipulations and numerical and algebraic symbols (Task 535).

To accomplish this, the student must be able to indicate what each symbol represents, must be able to manipulate each as required, and be sufficiently accurate to meet the standards for the activities.

Cross Reference Footnotes: Seé The Following Curriculum Objectives: Same scale value appears in: 113 115. Higher scale value appears in level 5.

 CURRICULUM OBJECTIVE SHEET
 Factor III
 No. 115

 Type of Objective Skill
 Factor III
 No. 115

 Skill or Knowledge Category Symbolic Skills
 Scale Value 1.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 335 356 357 358 359 360 361 362 363 364 365 366 367

 368 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388

 389 390 463 464 465 466 467 468 491 492 493 494 495 496 497 498 (*continued below)

 Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to mentally manipulate and/or use symbols which are part of an abstract, non-representational system of notation where the symbols stand for properties, relationships, or operations in the following activities:

- 1. Using formula for magnification to solve equations for unknown portions (distances); using arithmetic manipulations and numerical and algebraic symbols (tasks where appropriate).
- 2. Using conversion charts or posted information to reconvert technical exposure factors to an equivalent output using arithmetic mamipulations and numerical symbols (tasks where appropriate).
- 6. 3. Calculating distances in order to localize lesion using arithmetic manipulations and numerical symbols (Task 374).

To accomplish this, the student must be able to indicate what each symbol represents, must be able to manipulate each as required, and be sufficiently accurate to meet the standards for the activities.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 113 114.
Higher scale value appears in level 5.

* 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519.



CURRICULUM OBJECTIVE SHEET	1		•			Page 1 c) [.]
Type, of, Objective Skill			Factor	·IV	No.	116	
Skill or Knowledge Category	Taxonomi	c Skills		•	Scale	Value 2	.0
Occupation Patient Care Te	chnician	•	-		v	Level	2
Refers to Task Code No(s).:	296	*		- L	•	·	
• •		1	-				
,			•				
Is there Cross Reference?	.Yes(X)	.No() I:	f yes, see	footno	te(s).		•
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Content: A graduate of the program at this educational level must be able to consciously apply conceptual classifying or organizing principles to suit the needs of the following activity:

1. Determining the nature and severity of symptoms of patient who is to receive first aid of emergency care; deciding what first aid and/or emergency care to apply (Task 296).

To accomplish this, the student must be able to indicate what existing principles of classification or organization are appropriate to the situation of the task, and must indicate how they must be applied to suit the needs of the situation acceptably.

Cross Reference Footnotes: See The Following Curriculum Objectives Same scale value appears in: 117 118.

CURRICULUM OBJECTIVE SHEET	· "	·	<u> </u>	· Page l of l
Type of Objective Skill	· ·	Factor	VI	No117
Skill or Knowledge Category Occupation Quality Assura	Taxonomic Skills			Scale Value 2.0
Occupation Quality Assura	nce Technician			Level <u>2</u>
Refers to Task Code No(s).:	523. 543·550	•		<u> </u>
·	· <u>·</u>			<u> </u>
	· · · · · · · · · · · · · · · · · · ·			
Is there Cross Reference?	.Yes(X)No()	If yes, see	footno	te(s)

Content: A graduate of the program at this educational level must be able to consciously apply conceptual classifying or organizing principles to suit the needs of the following activities:

- 1. Determining what type of test to make of computerized transverse axial tomography equipment based on reported malfunction; problem found personally, or periodic testing schedule and type of equipment (Task 525).
- 2. Determining whether results of monitoring tests carried out on automatic x-ray film processors indicate malfunction of processing components, errors in temperature, or need to replenish processing chemicals (Task 543).
- 3. Selecting appropriate steps for a protection survey of stray radiation rates and/or primary and secondary barrier transmitted radiation rates depending on whether need relates to new facility, new piece of equipment, report of high personnel exposure rates, or periodic check; considering types of equipment, whether check of viewing system window is involved, whether there is request for isodose curves to show radiation field in examination room; in making report, selecting appropriate categories to include, such as equipment type, identification, modality tested, type of tests used, exposure factors, detection instrument, location for test, workload, use and occupancy factors, measured exposure levels, permissible dose equivalents (Task 550).

To accomplish this, the student must be able to indicate what existing principles of classification or organization are appropriate to the situations, of the tasks, and must indicate how they must be applied to suit the needs of the situations acceptably.

Cross-Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 116 118.

Higher scale value appears in level 3.



CURRICULUM OBJECTIVE—SHEET

Page 1 of 1

Type of Objective Skill Factor III No. 118

Skill or Knowledge Category 'Taxonomic Skills Scale Value 2.0

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s): 81 355 356 357 358 359 360 361 362 363 364 365 366

367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386

387 388 389 390 463 464 465 466 467 468 491 492 493 494 495 496 (*continued below)

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

<u>Content</u>: A graduate of the program at this educational level must be able to consciously apply conceptual classifying or organizing principles to suit the needs of the following activities:

- 1. In considering the quality of radiographs, noting appearances that seem medically suspicious, signs of pathological conditions (Task 81).
- 2. Considering what technologist should do to improve quality of radio- a graphs, such as adjustment of technical factors, repositioning of patient, or making additional exposures (Task 81).
- 3. Determining from requisition sheet, patient's medical-technical chart, and/or staff the examination called for, the patient involved, special considerations, patient's condition; checking for possible contraindications; noting information that may affect how patient is to be handled or technical factors; noting or selecting equipment to be used; checking on completeness of information; determining what prior preparation was ordered; selecting appropriate steps (all tasks listed except Task 81).
- 4. Evaluating orders for patient positions and projections of the area of interest in relation to patient's condition; considering the néed for a change from standard positions to accomplish the purpose of the examination and offer the least discomfort to patient (all tasks listed).
- 5. Considering patient's body type, size, sex, age or muscularity in determining correct technical factors and positioning (tasks, listed as appropriate).
- 6. Observing patient throughout procedure and being alert for any signs of pain, emergency, adverse reaction to procedure or contrast medium, or impairment of respiration; noting any signs of malainction of equipment (all tasks listed except Task 81).

To accomplish this, the student must be able to indicate what existing principles of classification or organization are appropriate to the situations of the tasks, and must indicate how they must be applied to suit the needs of the situations acceptably.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 116 117.

Higher scale value appears in level 5.

497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.

CURRICULUM OBJECTIVE SHEET	جي ،					Page l	of]
Type of Objective Skill		,,_	Factor	IV	No.	119	
Skill or Knowledge Category_	Implicativ	e Skills		-,	Scale	Value	1.0
· Occupation Patient Care Aid		7				Level	1
Refers to Task Code, No(s) .:	26,2/271 28	3 👯	,				
	7.		<u> </u>				
			_	• ,		Y	
Is there Cross Reference?	Yes(X)	No() I	f ves. see	footno	ite(s).		

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- 1. Concluding whether patient is showing signs of emergency that should be brought to physician's attention (Tasks 262, 271).
- 2. Concluding whether ÉCG reading looks suspicious or irregular; deciding whether to inform appropriate staff person (Task 271).
- 3. Concluding whether condition of dressing requires attention of more senior staff member (Task 283)..

To accomplish this, the student must be able to indicate the types of inferential mation from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Gross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 120 121 122 123.

Higher scale value appears in: 124 125 126 127 128.



CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Skill Factor IV No. 120
Skill or Knowledge Category Implicative Skills Scale Value 1.0
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 33 65 133 143 156 181 182 185 299 308

Is there Cross Reférence? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- 1. Concluding whether patient's wound or suture shows signs of infection; deciding what to do (Tasks 33, 156).
- 2. Concluding the likely number of separate specimens that will be prepared during procedure to take extravascular body fluid specimens, washings, cell and/or tissue bipsies (Task 65).
- 3. Goncluding whether medication type or dosage ordered is inappropriate, has already been administered, may be in error or contraindicated for patient; deciding whether to refuse to inject (Tasks 133, 299).
- 4. Concluding whether patient's pain or difficulty in passing a urethral catheter warrants termination of procedure and reporting to physician in charge (Tasks 143, 181).
- 5. Concluding whether tracheostomy passage has been sufficiently cleared by suctioning and whether surrounding area needs cleansing (Task 182).
- 6. Concluding when patient needs to have oxygen administered and whether patient is responding (Task 185).
- 7. Concluding whether ECG being monitored shows emergency signs or unusual reading; deciding whether to report this (Task 308)...

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Fóotnotes: See The Fallowing Curriculum Objectives:

Same scale value appears in: 119 121 122 123.

Higher scale value appears in: 124 125 126 127 128.



CURRICULUM OBJECTIVE SHEET			r	age 1 or 1
Type of Objective Skill	Factor	VI _	No.	121
Skill or Knowledge Category Implicative Skills		•	Scale	Value 1.0
Occupation Quality Assurance Aide				Level 1
Refers to Task Code No(s) .: 8 70 275 354				
,\\			- 0	<i>-</i>
	1			<u> </u>
Is there Cross Reference? Yes(X) No() If	yes, see	footno	te(s).	

<u>Content</u>: A graduate of the program at this educational level must be able to one to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- 1. Concluding whether computerized transverse axial tomography equipment is displaying a problem while it is being shut down; concluding whether it would be best to check personally, report to supervisor, call service organization, have test runs made, or run tests personally (Task 8).
- 2. Concluding whether there is a problem with manual film processing equipment based on visual inspection for contamination, dirt, exhaustion of developer or fixer soloutions or water bath after pH test of fixer, check of temperature, check for light leaks, check of condition of film hangers; concluding what is best to do (Task 70).
- Concluding whether subtraction prints in various stages of preparation are up to acceptable standards for diagnostic use (Task 275).
- 4. Concluding what patient records will be needed for specific purposes such as an examination, special procedure, treatment, or case conference (Task 354).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 119 120 122 123.

Higher scale value appears in: 124 125 126 127 128.



CURRICULUM OBJECTIVE SHEET		•		Page I or	<u>. 3</u>
Type of Objective Skill	Factor	VΙ	No.	122	
Skill or Knowledge Category Implicative Skills	_		Sçale	Value 1	.0
Occupation Quality Assurance Technician	-			Level 2	2
Refers to Task Code No(s).: 173 175 178 523 527	529 530	531 532	533,5	35 537 53	38
539 540 543 544 545 548 549 556			•		
	_		_ •		
Is there Tross Peferance? Ves(Y) No() If	V08 500	footpo	ta(c)		

Content: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- 1. Concluding whether problems encountered with x-ray machines are independent of timer accuracy after doing spinning top test; concluding nature of timer problems from results (Task 173).
- 2. Concluding whether there are problems with calibration of kVp or mA selectors after doing penetrometer test; concluding nature of problem, whether repair is needed (Task 175).
- 3. Concluding whether there are problems with fluoroscopic controls after checking equipment; concluding nature of problem, whether repair is needed (Task 178).
- 4. Concluding whether there are problems with computerized transverse axial tomography equipment after preparing for use; concluding nature of problem, whether repair or testing is needed (Task 523).
- 5. Concluding when computerized transverse axial scan display is adjusted for optimum sharpness and density gradation for the tissues in the area of interest and the possible pathological condition involved (Task 527).
- 6. Concluding whether diagnostic x-ray equipment meets acceptable standards for field limitation, receptor and light field alignment, minimum TOD, TFD, and field size indicators after making radiographic tests; concluding effects of any problems and deviations from acceptable standards in terms of patient exposure, dragnostic reliability, legal requirements (Task 530).
- 7. Concluding whether diagnostic x-ray equipment meets acceptable standards for fluoroscopic and spot film field limitation, field and image receptor alignment, maximum TID, minimum TOD and other requirements after inspecting, making radiographic tests; concluding effects of any problems and deviations from acceptable standards (Task' 530).
- 8. Concluding whether diagnostic x-ray tube overload protection and effective focal spot size meet acceptable standards after making tests; concluding effects of any problems and deviations from acceptable standards (Task 531).



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Page 2 of 3

Type of Objective Skill . Factor VI No. 122
Skill or Knowledge Cagegory Implicative Skills . Scale Value 1.0

Content Continued

- 9. Concluding whether diagnostic x-ray equipment exposure timers and/or automatic exposure termination devices meet acceptable standards after making direct calibration tests: concluding effects of any problems and deviations from acceptable standards (Tasks 532, 533).
- Concluding whether kVp, mA, mAs; exposure rates or reproducibility of diagnostic x-ray equipment output meet acceptable standards after making direct calibration tests or making calibrated penetrometer and/or densitions tests of calibration; concluding effects of any problems and deviations from acceptable standards (Task 535).
- 11. Concluding whether tomography equipment functions mechanically and whether fulcrum position, resolution, exposure uniformity and/or grid alignment meet acceptable standards after making mechanical and radiographic tests; concluding effects of any problems and deviations from acceptable standards (Task 537).
- 12. Concluding whether inherent filtration of diagnostic x-ray equipment meets acceptable standards after making radiographic tests; concluding effects of any problems and deviations from acceptable standards (Task 538).
- 13. Concluding whether bucky grid alignment and/or centering of diagnostic x-ray equipment meets acceptable standards after making mechanical or radiographic tests; concluding effects of any problems and deviations from acceptable standards (Task 539).
- 14. Concluding whether automatic brightness control and/or the focus, resolution, and distortion of fluoroscopic optical system meet acceptable standards after making radiographic tests; concluding effects of any problems and deviations from acceptable standards (Task 540).
- 15. Concluding whether automatic x-ray film processors show malfunction of processing components, errors in temperature, or need to replenish processing chemicals after making radiographic and sensitometer, densifometer tests; concluding whether variations are within acceptable range or the corrective steps to take (Task 543).
- 16. Concluding the appropriate uses for x-ray film and or dosimetric film batches after determining exposure characteristics (Task 544).
- 17. Concluding whether diagnostic x-ray examinations being conducted meet acceptable patient exposure standards after monitoring patient exposure rates; concluding the gonadal shielding appropriate for specific examinations and positions, concluding whether equipment problems exist; concluding effects of problems and deviations from acceptable standards (Task 545).



CURRICULUM	OBJECTIVE	SHEET	(continued)
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Page 3 of 3

Type of Objective Skill • Factor VI No. 122
Skill or Knowledge Cagegory Implicative Skills Stale Value 1.0

Content Continued

- 18. Determining whether diagnostic x-ray equipment meets acceptable limits for entrance exposure rate, barrier transmitted rate, leakage radiation, rate from source assembly after making tests; concluding effect of problems and deviations from acceptable standards (Tasks 548, 549).
- 19. Concluding whether there are problems with calibration of diagnostic test, survey, or electrical measuring instruments, densitometer, or sensitometer after carrying out tests; concluding what to do with equipment (Task 556).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 119 120 121 123.

Higher scale value appears in: 124 125 126 127 128.



CURRICULUM OBJECTIVE SHEET

Rage 1 of 1

Type of Objective		• • •		Factor	IXI	No.	,123	
Skill or Knowledge	Category'	Implicative Skill	s		#	Scale	-Value	1.0
Occupation Radiolo	gic Techno	ologist		•			Level	3
Refers to Task Code	e No(s).:	370 371 372 373	*	• ,	4,	,,-	<u> </u>	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

1. Concluding whether request for operating room radiography is properly authorized, complete, and whether there is sufficient information for performer to prepare equipment and carry out radiography (Tasks 370, 371, 372, 373).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the inplications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 119 120 121 122.

Higher scale value appears in: 124 125 126 127 128.

CURRICULUM OBJECTIVE SHEET		<u> </u>		Page 1 ot 1
Type of Objective Skill	<u>. </u>	Fact	IV No.	
Skill or Knowledge Category	Implicative S	kills	Scal	e Value 2.0
Occupation Patient Care		<u> </u>		_ Level 1 g
Refers to Task Code No(s).:	<u>73 295</u>	<u> </u>		
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Is there Cross Reference? .	.Yes(X)No() // yes, se	ootnote(s)	•
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<u>Content</u>: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- 1. Concluding what would be appropriate answers and/or consequences of own responses when answering patients' questions about diagnostic radiography procedures (Task 73).
- 2. Concluding when it is important or appropriate for performer to raise issues and/or participate in discussion during departmental meeting of nursing staff (Task 295).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Fellowing Curriculum Objectives: Lower scale value appears in: 119 120 121 122 123.

Same scale value appears in: 125 126 127.

Higher scale value appears in: 128.

CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective Skill	Factor	ĮVI,	No. 125
Skill or Knowledge Category' Implicative Skills			Scale Value 2.0
Occupation Patient Care Technician			Level 2
Refers to Task Code No(s): 280	*		
	-	-	
Is there Gross Reference? Yes(X) No() If	yes, see	footno	te(s).

Content: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on ... information in order to carry out the following activities:

1. Concluding whether performer has been accidentally exposed to excessive radiation, and/or drawing implications about past exposure to try to explain possible source of recorded high personal exposure to radiation (Task 280).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in 119 120 21-122 123.

Same scale value appears in: 124 126 📆

Higher scale value appears in: 128.

CURRICULUM OBJECTIVE SHEET Page 1 of Type of Objective Skill VI No. Skill or Knowledge Gategory Implicative Skills Scale Value 2.0 Occupation Quality Assurance Technician Level 2 Refers to Task Code No(s) 78 276 280 524 525 550

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- In checking and jacketing radiographic materials and finding missing information, concluding what a radiograph represents, the view, the patient, or the technologist who made it, based on information sources and other materials evailable (Task 78).
- Concluding the probable source of reported problems with automatic x-ray. film processing machine, the method of investigation, and what to do (Task 276).
- Concluding whethe performer has been accidentally exposed to excessive. radiation, and/ordrawing implications about past exposure to try to explain source of recorded high personal exposure to radiation (Task 280).
- Concluding the possible source of problems with computerized transverse axial tomography equipment and the method of investigation or repair (Tasks 524, 525).
- 5. Concluding whether stray radiation and transmission across primary and secondary protective barriers in a diagnostic x-ray installation survey is within acceptable limits for personnel maximum permissible dose equivalents after making appropriate tests and considering appropriate factors; drawing implications for deployment of staff, on sources of problems, on corrective measures, effect of problems and deviations from acceptable standards (Task 550).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 119 120 121 122 123. Same scale value appears in: 124 125 127.

Higher scale value appears in: 128 and level 5.



CURRICULUM OBJECTIVE SHEET Type of Objective ' Factor III

Implicative Skills Skill or Knowledge Category

Scale Value 2.0

No.

Occupation Radiologic Technologist

Level · 3 Refers to Task Code No(s).: 81 280 353 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 491 492 493 494 495 496 497 (*continued below) Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activities:

- Concluding whether radiographs demonstrate that correct patient positioning, collimation, and shielding have been accomplished, and whether the radiographs demonstrate the area and condition of interest satisfactorily for diagnostic purposes based on review of requisition and examination of radiographs; concluding whether problems are due to technologist's performance, malfunctioning of x-ray or processing equipment (Task 81).
- Consluding whether performer has been accidentally exposed to excessive radiation, and/or drawing implications about past exposure to try to explain possible source of recorded high personal exposure to radiation (Task 280).
- Concluding when it is important or appropriate for performer to raise issues and/or participate in discussion during departmental meeting of radiologic technologist staff (Task 353).
- Concluding whather there are possible contraindications to a radiographic examination that should be brought to radiologist's attention, such as possible exposure of fetus, recent duplication of examination, or specific atient conditions, based on reading patient's medical-technical history, requisition sheet, observation and/or interview with patient, and signs of distress, adverse or emergency feaction (all tasks listed as appropriate except Tasks 81 and 280).
- Concluding from patient's medical technical history, requisition, discussion with accompanying staff member, patient, or observation of natient's tissue or body type or presence of pain whether positioning or. exposure technique should be modified (all tasks listed as appropriate except Tasks.81 and 280).
- Concluding whether patient is paving an adverse of emergency reaction to procedure or contrast medium, or is showing signs of distress, or needs read ustment of life support equipment; concluding which staff member to notify (all tasks listed as appropriate except Tasks 81 and 280).
- Drawing implications from information on the patient's condition about the way to conduct examination to make patient most comfortable (all. tasks listed as appropriate except Tasks 81 and 280).

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 2

Type of Objective Skill
Skill of Knowledge Cagegory Imp

Implicative Skills

Factor III No.

127

Scale Value 2

Content Continued

8. Concluding what information to convey to patient based on patient's condition and behavior (all tasks listed as appropriate except Tasks 81 and 280)

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity which may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes See The Following Curriculum Objectives:

Lower scale value appears in: 119 120 121,122 123.

Same scale value appears in: 124 125 126.

Higher scale value appears in: 128 and level 5.

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CURRICULUM OBJECTIVE SHEET	, k	, ,	Page 1 of 1
Type of Objective Skill	Factor	IV	No. 128
Skill or Knowledge Category Implicative Skills			Scale Value 5.0
Occupation Patient Care Technician	•	1 .	Level <u>2</u> -
Refers to Task Code No(s).: 296	•		
			•
	· .	•	
Is there Cross Reference? Yes(X) No() If	yes, see	footno	ote(s).
· · · · · · · · · · · · · · · · · · ·	•		•

ontent: A graduate of the program at this educational level must be able to come to conclusions, draw implications, or foresee consequences based on information in order to carry out the following activition:

1. Concluding from information and examination of patient the nature and severity of emergency arising in department; concluding what procedures to follow; concluding while administering first aid whether patient is responding, and adjusting as appropriate (Task 296).

To accomplish this, the student must be able to indicate the types of information from which he or she must draw in the various instances of the activity of may arise, and must be able to indicate what inferences, consequences, or conclusions are implied by various possible combinations of information as appropriate for the situations. The student should be able to defend the implications drawn using appropriate criteria.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 119 120 121 122 123 124 125 126 127. Same scale value appears in level 4 of patient care.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective Skill
 Skill
 Factor IV
 No. 129

 Skill or Knowledge Category Financial Consequences of Error
 Scale Value 1.0

 Occupation
 Patient Care Afde
 Level 1

 Refers to Task Gode No(s): 73 74 98 113 138 153 155 166 199 262 271 278 282
 283 287 289 290 291 303

Is, there Cross Reference? ... Yes(X) :.. No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consquences which can result from errors, even after proper training, in the performance of the following tasks:

1. Reassuring any patient and/or accompanying adult about x-ray and/or fluoroscopy procedures (Task 73).

Explaining to any out-patient or accompanying adult proper at-home procedures to follow prior to coming for radiographic or fluoroscopic examination (Task 74).

- 3. Obtaining a clean catch urine specimen from any patient and preparing for laboratory (Task '98).
- 4. Giving any patient general reassurance (Task 113).
- 5. Reporting observed symptoms and concerns of any patient to physician or staff member (Task 138).
- 6. Assisting physician or co-worker in special examination or treatment procedures (Task 153).
- 7. Obtaining urine specimen on Orders (Jask 155).
- 8. Using isolation and decontamination techniques to prepare examination or treatment room or area and clean up afterwards for patient with infectious or communicable condition (Task 166).
- 9. Taking and recording vital signs (temperature, pulse, respiration and blood pressure) of any patient (Task 199).
- /10. Taking an electrocardiogram of any patient as ordered or determined (Task 262).
- 11. Deciding whether to call staff person to evaluate whether unusual ECG reading is artifact, or calling physician in case of serious patient. distress (Task 271).
- 12. Checking on reasons for nonappearance of in-patients for examinations or treatment (Task 278).
- 13. Escorting adult out-patients to and/or from dressing rooms, treatment rooms and/or waiting areas (Task 282).

ĊURRICULUM	OBJECTIVE	SHEET	(continued))
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Page 2

ĪV Type of Objective Skill Factor No. Skill or Knowledge Cagegory Financial Consequences of Embr Scale Value 1.0

Content Continued

- 14. On orders, deciding whether wound of any patient needing change of dressing needs attention of RN; changing simple dry dressing or reinforcing wet dressing (Task 283) ... *
- 15. On orders, placing order for specific dietetic meal; picking up, delivering, and feeding patient if so decided (Task 287).
- 16. Bot te feeding a baby with pre-prepared formula (Task 289).
- 17. Changing any patient's colostomy bag on orders (Task 290).
- 18. Taking and reporting temperature of any non-pediatric patient with oral thermometer on orders (Task 291).
 - 19. Arranging, measuring, and recording food intake and excretory output as ordered (Task 303).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 130 131 132 133 134.

Higher scale value appears in: 135 136 137.



CURRICULUM OBJECTIVE SHEET

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Type of Objective Skill Factor IV No. 130

Skill or Knowledge Category Financial Consequences of Error Scale Value 1.0

Occupation Patient Care Technician Level 2

Refers to Task Code No(s): 18 33 65 133 143 156 181 185 198 280 296 298 299 308

- 522

Is there Cross Reference? ... Yes(X) ... No(') If yes see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

- 1. Drawing blood from any non-pediatric patient's veins on orders (Task 18).
- 2. Removing any patient s'sutures (Task 33).
- 3. Preparing specimens such as extravascular body fluids, washings, cell and/or tissue biopsies for transportation to laboratory (Task 65).
- 4. Administering subcutaneous or intramuscular injection for any patient according to MD's orders after having quantity checked (Task 133).
- 5. Catheterizing any female urethra as ordered (Task 143).
- 6. Irrigating, cleaning, dressing or redressing any patient's wound, burn, or opening for catheter as ordered (Task 156).
- 7. Catheterizing any male or female patient's wrether with retention balloon catheter (Task 181).
- 8. Administering oxygen from portable or piped outlet unit using oronasal or nasal mask according to MD's orders (Task 185).
- 9. Administering medication orally to any patient according to MD's orders after having quantity checked (Task 198).
- 10. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer (Task 280).
- 11. Providing first aid in x-ray department emergency (Task 296).
- 12. Administering medication orally to any patient according to MD's orders (Task 298).
- 13. Administering subcutaneous or intramuscular injection for any patient according to MD's örders (Task 299).
- 14. Setting up and monitoring any patient's electrocardiogram during special procedure (Task 308).



	CURRICULUM OBJECTIV	/E SHEET (continued)	<u> </u>	-		1	Page 2	of 2	
	Type of Objective	Skil.			Factor	IV	No.	130		-
•	Skill or Knowledge	Cagegory	Financial	Consequences	of Error		Scale	Value	1.0	,

Content Continued

15. Applying pressure dressing to arterial or venous puncture site (Task 522).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale: value appears in: 129 131 132 133 134. Higher scale value appears in: 135 136 137.



CURRICULUM OBJECTIVE SHEET

Page 1 of 3

Type of Objective Skill Factor VI No. 131
Skill or Knowledge Category Financial Consequences of Error Scale Value 1.0
Occupation Quality Assurance Aide Level 1
Refers to Task Code No(s): 8 69 70 71 72 79 80 95 134 135 136 137 145 163 164

167 180 192 222 227 260 267 269 273 274 275 284 285 286 288 297 304 319 354

551 552

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

- 1. Shutting down computerized transverse axial scanning equipment (Task 8).
- 4. Processing exposed x-ray film in automatic processor (Task 69).
- 3. Inspecting, cleaning, and readying x-ray film hand processing equipment for use (Task 70).
- 4. Processing exposed x-ray film manually (Task 71).
- 5. Loading x-ray film cassette(s), nonscreen film holder(s), box(es), and/or roll film cartridges (Task 72).
- 6. Preparing barium sulfate contrast medium as ordered or for standard use (Task 79).
- 7. Preparing materials or trays with medications and materials for special treatments or procedures according to standard orders (Task 80).
- 8. Testing a urine sample by tablet or dipstick method and recording results (Task 95).
- 9. Logging and/or tallying patient services and/or instructional case record materials for use in record keeping, billing, or instruction (Task 134).
- 10. Cleaning an examination or treatment room after use (Task 135).
- 11. Checking and storing order for non-narcotic drugs and/or supplies (Task 136).
- 12. Delivering prepared specimens or cultures to lab or incubator (Task 137).
- 13. Preparing treatment or examination equipment for sterilization, in autoclave (Task 145).
- 14. Filling out institutional report form (such as formancellation) as ordered by MD (Task 163).
- 15. Filling out patient identification information on labels and forms in anticipation of need or as requested (Task 164).

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 3

Type of Objective Skill Factor VI No. 131
Skill or Knowledge Cagegory Financial Consequences of Error Scale Value 1.0

Content Continued

- 16. Inspecting and cleaning intensifying screens in cassette holders (Task 167).
- 17. Preparing blood samples for the laboratory (Task 180).
- 18. Inspecting, checking, preparing xeroradiography equipment for use (Task 192).
- 19. Making photocopies of documents, collating, and stapling (Task 222).
- 20. Checking for presence and condition of emergency supplies in proper locations; and restocking as needed (Task 227).
- 21. Preparing a hypodermic needle with injection dosage on orders (Task 260).
- 22. Processing exposed Polaroid x-ray film with Polaroid automatic processing equipment (Task 267).
- 23. Loading empty cassette with Polaroid x-ray film (Task 269).
- 24. Cleaning, inspecting and readying automatic x-ray film processor(s) for use (Task 273).
- 25. Adding predetermined instruments and supplies to prepared procedure trays (Task 274).
- 26. Preparing radiographic subtraction prints (Task 275):
- 27. Checking presence and functioning of oxygen and/or suction equipment, and amounts of oxygen (Task 284).
- 28. Checking for presence of emergency supplies in proper locations (Task 285).
- 29. Filling out standard order for linen; picking up folding and storing (Task 286).
- 30. Filling outpand delivering standard order for food items for department; picking up, and placing food for storage (Task 288).
- 31. Obtaining and checking keypunch control card for serial cassette changer as ordered (Task 297).
- 32. Readying emergency cart (Task 304).
- 33. Applying print coater to photographs (Task 319).
- 34. Obtaining patient records for use in examination, procedure, treatment, or conference (Task 354).



CURRICULUM -OBJECTIV	<u>ve-sheet (</u>	continued)	<u> </u>				Page 3	of_
Type of Objective	Skil.	1		Factor	VI	No.	131	
Skill or Knowledge	Cagegory	Financial	Consequences	of Erzor		Scale	Value.	1.0

Content Continued

- 35. Preparing personnel radiation monitoring dosimetric film or TLD badges and distributing (Task 551).
- 36 Collecting and/or distributing personnel monitoring dosimetric badge inserts and preparing for outside or in-house processing and reading (Task 552).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials or time involved in the tasks. The student should be able to indicate what the most obvious errors during the learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 129 130 132 133 134. Higher scale value appears in: 135 136 137.

CULTUM OBJECTIVE SHEET

Page 1 of 3

Type of Objective Skill , Factor VI. No. 132

Skill or Knowledge Category inancial Consequences of Error Scale Value 1.0
Occupation Quality Assurance Technician Level 2

Refers to Task Code No(s) : 78 173 280 523 524 525 527 529 530 532 533 534 536

537 538 539 540 543 544 545 548 549 550 553 554 556

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

- 1. Checking and jacketing patient's radiographs, ultrasonograms, and/or C.T.Th scans with requisition sheets and prior diagnostic materials and placing for filing and interpreting (Task 78).
- 2. Checking ecuracy of x-ray machine timers (except phototimers) with spinning top test (Task 173).
- 3. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worm by performer (Task 280).
- 4.1 Preparing computerized transverse axial totography (C.T.T.) equipment for use (Task 523).
- 5. Providing preventive maintenance for display tube surface, camera, disc, and/or tape drive units, and/or scanning assembly (especially water—using head box assembly) of computerized transverse axial tomography (C.T.T.) equipment (Task 524).
- 6. Checking of libration and accuracy of C.T.T. equipment by making test scans (Task 525).
- 7. Retrieving, visplaying and making photographs, printouts and/or magnetic tape records of computerized transverse axial tomographic (C.T.T.) scans (lask 527).
- 8. Checking x-ray field limitation, x-ray receptor and light field alignment, minimum TOD, TFD and field size indicators for diagnostic x-ray equipment (2ast 529)
- 9. Checking fluoroscopic and spot film x-ray field limitation, x-ray field and image receptor alignment, maximum TLD, minimum TOD, and other requirements (Task 530).
- 10. Testing whether diagnostic x-ray tube overload protection and or effective focal spot size meet acceptable standards (Task 531).
- 11. Checking and/or performing direct calibration tests of diagnostic radiography equipment exposure times (Task 532).



CURRICULUM	OBJECTIVE - SHEET	(continued)

Page 2 of 3

Type of Objective Skill Factor VI No. 132
Skill or Knowledge Cagegory Financial Consequences of Error Scale Value 1.0

Content Continued

- 12. Checking automatic exposure termination of diagnostic radiography equipment (Task 533).
 - Providing visual and radiographic or fluoroscopic inspection of personned shielding devices such as leaded gloves, aprons, sheets, gonadal shields (Task 534).
 - 14. Providing visual and/or manual inspection of diagnostic radiography *system (Task 536).
 - 15. Checking diagnostic tomography x-ray equipment for mechanical operation, fulcrum position, resolution, exposure uniformity and/or grid alignment (Task 537).
 - 16. Estimating HVL and checking adequacy of filtration of diagnostic x-ray equipment (Task 538).
 - 17. Checking bucky grid alignment and/or centering in diagnostic radiography equipment (Task 539).
 - 18. Checking fluoroscopic automatic brightness control system and/or focus, resolution and distortion of the optical system (Task 540).
 - 19. Monitoring and evaluating x-ray film processors (Task 543).
 - 20. Determining exposure characteristics of x-ray and/or dosimetric films (Task 544).
 - 21. Monitoring patient exposure rates for routine diagnostic x-ray procedures (Task 545).
 - 22: Checking maximum entrance exposure rate and primary barrier transmitted radiation rate for fluoroscopic equipment (Task 548).
 - 23 Checking the leakage radiation rate from the source assembly of diagnostic x-ray equipment (Task 549).
 - 24. Conducting protection survey stray radiation within diagnostic x-ray installation and transmission across primary and secondary protective barriers (Task 550).
 - 25. Reading and recording exposure from personnel monitoring film or thermoluminescent dosimeters (Task 553).
 - 26. Entering, evaluating occupational radiation exposure data and initiating action on dangerous levels (Task 554).

CURRICULUM OBJECTIVE	SHEET ((continued)
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Page 3 of 3

Type of Objective Skill Factor VI No. 132
Skill or Knowledge Cagegory Financial Consequences of Error Scale Value 1.0

Content Continued

27. Calibrating diagnostic x-ray test, survey or measuring instruments (Task 556)...

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 129 130 131 133 134. Higher scale value appears in: 135 136 137.

CURRICULUM OBJECTIVE SHEET

Page 1 of 4

Type of Objective Skill Factor III No. 133

Skill or Knowledge Category Financial Consequences of Error Scale Value 1.0

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s) * 280 353 355 356 357 358 359 360° 361 362 363 364 365

366 367 368 369 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389

390 463 464 465 466 467 468 491 492 493 494 495 496 497 498 499 (*continued below)

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the perfermance of the following tasks?

- i. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer. (Task 280):
- 2. Participating in meeting of diagnostic x-ray department technologists (Task 353).
- 3. Taking plain film radiographs of non-infant patient's fingers, hands, or wrists; forearm and/or elbow joint; humerus and/or shoulder girdle; toes, feet, and/or ankle joint; legs, knees, and/or femora; pelvis, hips, and/or upper femora; vertebral column; sternum, ribs, and/or thoracic viscera; abdominal contents; anterior neck; skull and/or face; or paranasal sindses (Tasks 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366).
- 4. Taking preliminary localization radiographs of foreign bodies in orbit or eye of mon-infant ratient (Task 367).
- 5. Taking mammograms (radiography or xeroradiography) of non-infant patient (Task 3681.
- 6. Preparing, transporting, setting up, and returning mobile portable radiography equipment for bedside radiography (Task 369).
- 7. Taking tomograms of non-infant patient (Task 374)
- 8. Taking sialograms of any patient (Task 375).
- 9. Taking lymphanglograms or tymphadenograms of any patient (Task 376).
- 10. Taking positive contrast arthrograms (especially of knee) of any patient (Task 377).
- 11. Faking bronchograms of a non-pediatric patient (Task 378)
- 12. Carrying but radiologic technology for bronchoscopy or needle, lung biopsy of a mon-pediatric patient (Task 379).

CURRICULUM OBJECTIVE	SHEET	(continued)	á		3	•	Page 2	of'4
Type of Objective	Skill	3.	•	Factor	III	No.	133	

Skill or Knowledge Cagegory Financial Consequences of Error Scale Value 1.0

Content Continued

- 13. Providing technical assistance for laryngography or cleft palate study of any patient (or any similar fluoroscopic examination including spot filming and/or cineradiography) (Task 380).
- 14. Taking pper GI radiographs; small intestine intupation radiographs, barium enema radiographs of non-pediatric patient (Tasks 381, 382, 383).
- .15. Taking oral cholecystograms and cholangiograms, intravenous cholangiograms and cholecystograms, percutaneous or T+tube cholangiograms of non-infant patient (Tasks 384, 385, 386).
- 16. Taking intravenous pyelograms and urograms of non-pediatric patient (Task 387).
- 17. Taking infusion nephrotomograms of any patient (Task 388).
- 18. Taking percutaneous antegrade or renal cyst pyelograms of non-infant patient (Task 389).
- 19. Taking cystograms and voiding cystourethrograms of any patient (Task 390)
- 20. Taking retrograde pyelograms and ureterograms of non-pediatric patient (Task 463).
- 21. Providing technical assistance for prevamination of any patient requiring fluoroscopic control and spot filming (Task 464).
- 22. Taking pelale pneumograms and/or hysterosalpingograms of non-pediatric standard female pathent (Task 465).
- 23. Taking, radiographs of a pregnant patient's abdomen for fetography, amniography placentography, patient's uterus for intracuterine transfusion, patient's pelvis for Colcher-Sussman pelvimetry (Tasks 466, 467, 468).
- 24. Taking plain film radiographs of the skall, vertebral column, upper extremities, neck, chest, abdomen, or lower extremities of infant or pediatric patient (Tasks 491, 492, 493, 494, 495, 496).
- 25. Taking radiographs for choanal atresia study of Anfant partent (Task 497)
- 26. Taking bronchograms of a pediatric patient (Task 498).
- 27. Taking upper GI radiographs, barium enema, intussusception, or defecography radiographs of pediatric patient (lasks 499, 500).
- 28. Taking percutaneous peritoneograms/herniograms, excretofy intravenous inferior vena cavograms and urograms of pediatric patient (Tasks 501, 502).



Type of Objective Skill

Factor III / No.

of Error Skill or Knowledge Cagegory Financial Consequences

Scale Value 1.0

Content Continued

- 29. Taking genitograms or fistulograms of any patient for intersex, external fistula or sinus tract examination (Task 503):
- 30. Taking cerebral angiograms or venograms of any patient (Task 504).
- 31. Taking pneumoencephalograms or brain vetriculograms of any patient
- 32. Taking positive contrast spinal or posterior fossa myelograms of any . patient (Task 506).
- 3. Taking diskograms of any patient (Task 507).
- 34. Taking air or gas contrast myelograms of any patient (Task 508)
- 35. Taking spinal cord angiograms of any patient (Task 509).
- 36. Taking peripheral angiograms of any patient (Task 510).
- 37. Taking catheter thoracic and/or abdominal mortograms of any patient, and/or selective visceral arteriograms (bronchial or abdominal) (Task 511)
- 38. Taking selective pelvic angiograms of non-mediatric gravid or nongravid female patient (Task 512).
- 39. Taking intravenous angiocardiograms of any patient (Task 513).
- 40. Taking selective thyroid angiograms of any patient (Task 514).
- 41. Taking catheter inferior vena cavegrams and/or renal or adrenal venograms of non-infant patient (Task 615).
- 42. Taking percutaneous splenoportograms of any patient (Task 516).
- 43. Taking selective subclavian arteriograms of non-mediatric patient for thoracic outlet syndrome évaluation (Task 517).
- 44. Taking selective pulmonary angiograms or selective engiocardiograms . of any patient (Task 318).
- 45. Taking perculaneous, coronary arteriograms and/or left ventriculograms of any patient (Task 519).
- 46. Taking computerized transverse axial tomographic (C.T.I.) scans of anv patienit (Task 526).

CURRICULUM OBJECTIVE SHEET (continued)

Type of Objective

Factor III.

No.

Skill or Knowledge Cagegory Financial Consequences of Error

Scale Value 1.0

.Content Continued

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning . would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the error, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 129 130 131 132 134.

Higher scale value appears in: 135.136 137.

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CURRICULUM OBJECTIV	VE SHEET		•	-		']	Page 1 of .
Type of Objective	Sk	ill	٠ 🙀	Factor	Α	. No.	134
Skill or Knowledge	Category	Financial	Consequenc	es of Er	ror*,	Scale	Value 1.0
Occupation	Administr	ative Techr		<u> </u>			Level 3.
Refers to Task Code	e No(s).:	76 129 134	132 165 2	2 7 2 277			
	-						7

Is there Cross Reference? ... Yes (X) ... No() If yes, see fortnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

- 1. Checking supplies and ordering non-drug materials; non-narcotic medicinals needed by department (Tasks 76, 129).
- 2. Making assignments of staff to work areas, procedures, and/or MD's, and/or vacations and lunch hours (Task 131).
- 3. Requesting repair, replacement or other services of another hospital department orally and/or filling out requisition (Task 132).
- 4. Keeping attendance records and recording or reporting excessive lateness and/or absenteeism (Task-165).
- 5. Preparing and adjusting schedules for patient procedures; assigning scheduled patients to procedure rooms in appropriate order (Tasks 272, 277)

for accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Of riculum.Objectives:

Same scale value aprear in: -129 130 131 .132 133.

Higher scale value appears in: 135-136-137.



CURRICULUM OBJECTIVE SHEET,

Type of Objective Skill Factor VI No. 135

Skill or Knowledge Category Financial Consequences of Error Scale Value 4.0

Occupation Quality Assurance Aide Level 1

Refers to Task Code Ng(s): 147.

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

1. Preparing or changing technique charts for specific x-ray and fluoroscopic equipment on orders (Task 147).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. The student should be able to indicate, what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnobes: See the Fallowing Carriculum Objectives: Lower stale value appears in: 129 130 131 132 133 134.
Same scale value appears in: 136 137.

CURRICULUM OBJECTIVE SHEET		• , ,	Pag	gelofl-
Type of Objective Ski		Factor VI		136
Skill or Knowledge Category	Financial Consequ	ences of Error	Scale Va	
Occupation Quality Assur		۲		evel 2
Refers to Task Code No(s).:	175 178 276 535		_	
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

- 1. Performing penetrometer calibration test of kVp or mA selectors of x-ray machine output (Task 175).
- 2. Checking, preparing fluoroscope controls (and phototimer) (Task 178).
- 3. Making minor adjustments or repair on automatic x-ray film processor (Task 276):
- 4. Performing calibration tests of kVp, mA, mAs, exposure rates, reproducibility on diagnostic radiography equipment using direct measuring instruments and/or radiographic comparisons (Task 535).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials, or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 129 130 131 132 133 134.

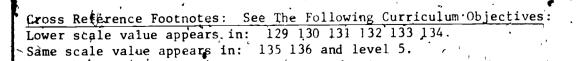
Same scale value appears in: 135 137 and level 5.

CURRICULUM OBJECTIVE SHEET	· · · · · · · · · · · · · · · · · · ·		Page l of l
Type of Objective Ski	.11	Factor III	No137
Skill or Knowledge Category	Financial Consequence	es of Error	Scale Value 4.0
Occupation Radiologic Tech	nologist		Level <u>3</u>
Refers to Task Code No(s).:	370 371 372 373	1.	
te	4		
Is there Cross Reference?	.Yes(X)No() If	yes, see footno	ote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of the financial consequences which can result from errors, even after proper training, in the performance of the following tasks:

1. Taking operative orthopedic radiographs, operative cholangiograms, pancreatograms or similar operative radiographs, intravisceral or isolated operating room radiographs of any patient, or operating room radiographs for opaque foreign body search (Tasks 370, 371, 372, 373).

To accomplish this, the student must be able to indicate the financial value of the output, equipment, materials or time involved in the tasks. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the financial consequences would be, should be able to state what should be done to avoid the errors, and should be able to carry this out





 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective Skill
 Skill
 Factor IV No 138

 Skill or Knowledge Category Consequences of Error to Humans
 Scale Value 1.0

 Occupation Patient Care Afde
 Level 1

 Refers to Task Code No(s): 73 74 98 113 155 199 262 278 279 281 287 290 291

 302 303 520
 Afger No (s) : 73 74 98 113 155 199 262 278 279 281 287 290 291

Is there Cross Reference? ... Yes () ... No(,) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1.. Reassuring any patient and/or accompanying adult about x-ray and/or fluoroscopy procedures (Task 73).
- 2. Explaining to any out-patient or accompanying adult proper at-home procedures to follow prior to coming for radiographic or fluoroscopic examination (Task 74).
- 3. Obtaining a clean catch urine specimen from any patient and preparing for laboratory (Task 98).
- 4. Giving any patient general reassurance (Tak 113)
- 5. Obtaining urine specimen on orders (Task 154).
- 6. Taking and recording vital signs (temperature, pulse, respiration, and blood pressure) of any patient (Task 199).
- 7. Taking electrocardiogram of any patient as ordered or determined 4. (Task 262).
- 8. Checking on reasons for nonappearance of in-patients for examinations or treatment (Task 278).
- 9. Notifying ward or floor personnel to ready and transport in-patients who are scheduled for specific procedures at specific times (Task 279).
- 10. Checking in-patients' identity against patients' treatment and medication check lists; stamping arrival and departure times; attaching cards to patients indicating special conditions (Task 281).
- 11. On orders, placing-order for specific dietetic meal; picking up, delivering, and fading patient if so decided (Task 287).
- 12. Changing any patient's colostomy bag on orders (Task 290).
- 13. Taking and reporting temperature of any non-pediatric patient with oral thermometer on orders (Task 291).
- 14. Placing or making call and delivering non-medical message at patient or co-worker's request (Task 302).

CURRICULUM OBJECTI	VE SHEET	(continued)				-		age 2	of	2
Type of Objective	•	Skill •			Factor	IV	No.	138		_
Skill or Knowledge	Cagegor	y Consequen	ces o	f Error	to Humar	s	Scale	Value	1.0	
	•		,		-					

Content Continued

- 15. Arranging, measuring, and recording food intake and excretory output as ordered (Task 303).
- 16. Preparing any patient and attaching electrodes for electrocardiogram monitoring (Task 520).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be most serious likely error after proper training has been accomplished, what the consequences of error to humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Gross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 139 140 141 142 143:

Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161.



CURRICULUM OBJECTIVE SHEET	_ <u> </u>			Page li of	f 1
Type of Objective Sk	i11 .	Factor	IV N	io., <u>* 139</u>	
Skill or Knowledge Category	Consequences	of Error to Hum	ans Sc	ale Value <u>l.</u>	0
Occupation . Patient Care				Level <u>2</u>	<u>:</u>
Refers to Task Code No(s) .:	133 198	*			
	, ,			+ t	
				·	

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. 'Adminitaring subcutaneous or intramuscular injection for any patient according to MD's orders after having quantity checked (Task 133).
- 2. Administering medication orally to any patient according to MD's orders after having quantaty checked (Task 198).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be the most serious likely error after proper training has been accomplished, what the consequences for humans would be should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Same scale value appears in: 138 140 141 142 143.
Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 144 155 156 157 158 159 160 161.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 2

 Type of Objective Skill Factor VI No. 140

 Skill Factor VI No. 140

 Skill Factor to Humans Scale Value 1.0

 Occupation Quality Assurance Aide
 Level 1

 Refers to Task Code No(s):
 8 72 95 134 135 136 145 147 163 164 167 184 222
 223 227 260 264 267 269 274 275 284 285 286 288 297 300 354

Is there Cross Reference? ... Yes(X) ... No(). If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Shutting down computerized transverse axial scanning equipment (Task 8)
- 2. Loading x-ray film cassette(s), nonscreen film holder(s), box(es), and/or roll film cartridges (Task 72).
- 3. Testing a wrine sample by tablet or dipstick method and recording / (Task 95).
- 4. Logging and/or tallying patient services and/or instructional case record materials for use in record keeping, billing or instruction (Task 134).
- 5. Cleaning an examination or treatment room after use (Task 135).
- 6. Checking and storing order for non-narcotic drugs and/or supplies (Task 136).
- 7. Preparing treatment or examination equipment for sterilization in autoclave (Task 145).
- 8. Preparing or changing technique charts for specific x-ray and fluoroscopic equipment on orders (Task 147).
- 9. Filling out institutional report form (such as for cancellation) as ordered by MD (Task 163).
 - 10. Filling out patient identification information on labels and forms in anticipation of need or as requested (Task 164):
 - 11. Inspecting and cleaning intensifying screens in cassette holders (Task 167).
 - 12. Relocking equipment box(es) with breakaway lock (Task 184).
 - 13. Making photocopies of documents, collating, and stapling (Task 222).
 - 14. Making up unoccupied bed or stretcher bed (Task 223).
 - 15. Checking for presence and condition of emergency supplies in proper locations; and restocking as needed (Task 227):

Page 2 of 2

Type of Objective Skill Factor VI No. 140
Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 1.0

Content Continued

- 16. Preparing a hypodermic needle with injection dosage on orders (Task 260).
- 17. Ordering duplicate copies of forms, records, or documents (Task 264).
- 18. Processing exposed Polaroid x-ray film with Polaroid automatic processing equipment (Task 267).
- 19. Loading empty cassette with Polaroid x-ray film (Task 269).
- 20. Adding predetermined instruments and supplies to prepared procedure trays (Task 274).
- 21. Preparing radiographic subtraction prints (Task 275).
- 22. Checking presence and functioning of oxygen and/or suction equipment, and amounts of oxygen (Task 284).
- 23. Checking for presence of emergency supplies in proper locations (Task 285)
- 24. Filling out standard order for linen; picking up, folding, and storing. (Task 286).
- 25. Filling out and delivering standard order for food items for department; picking up, and placing food for storage (Task 288).
- 26. Obtaining and checking keypunch control card for serial cassette changer as ordered (Task 297).
- 27. Checking and submitting accumulated patient's treatment and medication check lists for in and out time stamps (Task 300).
- 28. Obtaining patient records for use in examination, procedure, treatment, or conference (Task 354).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 138 139 141 142 143.

Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161.



CURRICULUM OBJ	ECTIVE SHEET		1	<u> </u>	Pa ge 1	<u>of 1</u>
Type of Object	ive Skill		Factor	VI,	No. 141	
Skill or Knowle	edge Category		of Error to	Humans S	cale Value	1.0
Occupation Q	uality Assurance	Technician	_	 	Level	2
Refers to Task	Code 'No(s).: 78	B/173 175 187	,		 ,	
'/						
		1				
Is there Cross	Reference?Ye	es(X)No() If yes, se	e footnote	(s).	+

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Checking and jacketing patient's radiographs, ultrasonograms, and/or C.T.T. scans with requisition sheets and prior diagnostic materials, and placing for filing or interpreting (Task 78).
- 2. Checking accuracy of x-ray machine timers (except phototimers) with spinning top test (Task 173).
- 3. Performing penetrometer calibration test of kVp or mA selectors of x-ray machine output (Task 175).
- 4. Checking cassettes for proper film-screen contact (Task 187).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curreiculum Objectives:

Same scale value appears in: 138 139 140 142 143.

Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161.

COKKICOTOW OPIECTIAE SUFFT			_ •	Tage I UL I
	kill ·	Factor	III Ņo.	142
Skill or Knowledge Category	Consequences of	Error to Huma	ans Scale	Value 1.0
Occupation Radiologic Tech	nologist			Level 3
Refers to Task Code No(s).:	353		<u>·</u>	
, <u>•</u>		,	<u>_</u>	·
Is there Cross Reference?	.Yes(X)No()	If yes, see	footnote(s).	2

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following task:

1. Participating in meeting of diagnostic x-ray department technologists (Task 353).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Same scale value appears in: 138 139 140 141 143
Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 154 155
156 157 158 159 160 161.



CURRICULUM OBJECTIVE SHEET		•	_	r	Ł	'age L	ot I
•Type of Objective	Skill	•	Factor	Α,		143	
Skill or Knowledge Category	Consequence	es of Er	or to Hum	ans '	Scale	Value	1.0
Occupation Administrative					• '	Level	3
Refers to Task Code No(s).:	. 76 -128 12	9 131 169	186 272	277 294		• •	
- 1 - 1			. 11:	, -			
	^	•	,	•	'		
Is there Cross Reference?	.Yes(X)	lo() If	yes, see	footnot	e (s).	,	_

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Checking supplies and ordering non-drug materials needed by department (Task 76).
- 2. Checking supply of narcotics or regulated drugs (or witnessing count); reordering, picking up, and restocking (Task 128).
- 3. Checking supply and ordering non-narcotic medicinals needed by department (Task 129).
- 4. Making assignments of staff to work areas, procedures, and/or MD's and/or vacations and lunch hours (Task 131).
- 5. Keeping attendance records and recording or reporting excessive lateness and/or absenteeism (Task 165).
- 6. Orienting new staff member(s) to departmental standard operating and administrative procedures, floor plan, location of equipment and supplies record keeping (Task 186).
- 7. Preparing and adjusting schedules for patient procedures (Task 272).
- 8. Assigning scheduled patients to procedure rooms in appropriate order (Task 277).
- Assigning subordinate and explaining assignment to transport patient, obtain materials or documents, or assist co-worker (Task 294).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 138 139 140 141 142.

Higher scale value appears in: 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET	· · · · · · · · · · · · · · · · · · ·	Page 1 of
Type of Objective Skill	Factor IV	No. 144
Skill or Knowledge Category Consequer	nces of Error to Humans	Scale Value 2.0
Occupation Patient Care Aide		Level 1
Refers to Task Code No(s): 193 283	289 292 301-490	·
*		
		,
Is there Cross Reference? Yes (X)	.No() If yes, see foo	tnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Having any patient and materials prepared for special procedure and readying patient for examination (Task 193).
- 2. On orders, deciding whether wound of any patient needing change of dressing needs attention of RN; changing simple dry dressing or reinforcing wet dressing (Task 283).
- 3. Bottle feeding a baby with pre-prepared formula (Task 289).
- 4. Obtaining and examining fresh stool from any patient and reporting unusual or suspicious appearance, on orders (Task 292).
- 5. Diapering a baby (Task 301).
- 6. Mummying or wrapping an infant or young pediatric patient (Task 490).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The/Following Curriculum Objectives:
Lower scale value appears in: 138,139 140 141 142 143.
Same scale value appears in: 145/146 147.
Higher scale value appears in: 148.149,150 151 152 153 154 155 156 157 158 159 160 161.



CURRICULUM OBJECTIVE SHEET		· · ·		I	age l	of I
Type of Objective Ski	11 '	Fact	or IV	No .	145	
Skill or Knowledge Category	Consequences o	f Error to	Humanis	Scale	Value_	2.0
Occupation Patient Care To			· .	<u>, , , , , , , , , , , , , , , , , , , </u>	Level	2
Refers to Task Code No(s) .:				<u> </u>		
•	•		*		<i>i</i>	
•	•		,		•	•
Is there Fross Reference?	.Yes(X)No()	If yes,	see footno	te(s).		

Content: A graduate of the program at this educational level must be able to 'display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Drawing blood from any non-pediatric patient's vein on orders (Task 18).
- 2. Irrigating, cleaning, dressing or redressing any patient's wound, burn, or opening for catheter as ordered (Task 156).
- 3. Setting up and using suction machine to clear airway or to assist with gastric lavage (Task 182).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out?

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143.
Same scale value appears in: 144 146 147.
Higher scale value appears in: 148 149 150 151 152 153 154 155 156 157 158 159 160 161.

CURRICULUM- OBJECTIVE SHEET			<u>. js</u>	Page 1 of 1
Type of Objective · Skil		/ Factor		146
Skill or Knowledge Category	Consequences	of Error to Hun	nans Scal	e Value 2.0
Accupation Quality Assura			* *	Level 1
Refers to Task Code No(s).:	137 180 319			
•	1,1, -	J		
	· · ·	· ,	, •	
Is there Cross Reference?	Yes(X)No	() If ves, se	e footnote(s)	•

Content; A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Delivering prepared specimens or cultures to lab or incubator (Task 137).
- 2. Preparing blood samples for the laboratory (Task 180).
- 3. Applying print coater to photographs (Task 319)...

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning, would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143.

Same scale value appears in: 144 145 147.

Higher scale value appears in: 148 149 150 151 152 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET	<u> </u>	· , ,		Page I of I
Type of Objective Ski	.11 ,	Factor	·III / No.	147
Skill or Knowledge Category_	Consequences	of Error to H	umans Scale	Válue 2:0
Occupation Radiologic Tec		-		Level 3
Refers to Task Code No(s):		- ,		
		, ,	• •	
	. •			
Is there Cross Reference?	.Yes(X)No(} If yes, see	footnote(s)	·

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Taking radiographs of a pregnant patient's abdomen for fetography, amniography, placentography (Task 466).
- 2. Taking radiographs of a pregnant patient's pelvis for Colcher-Sussman pelvimetry (Task 468).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Eross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 138 139 140 141 142 143.

Same scale value appears in: 144 145 146.

Higher scale value appears in: 148 149 150 151 152 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET	•	<u> </u>		Page 1.01
Type of Objective	i 11	, Fact	or IV	No. <u>148</u>
Skill or Knowledge Category	Consequences o	of Error to	Humans	Scale Value 3.0
Occupation Patient Care Ai				Level <u>1</u>
Refers to Task Code No(s).:	138 153 166 29)5		
				, , , , , , , , , , , , , , , , , , , ,
	*		•	
. Is there Cross Reference	Yes(X) No() If yes,	see footn	ote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Reporting observed symptoms and concerns of any patient to physician or staff member (Task 138).
- 2. Assisting physician or co-worker in special examination or treatment procedures (Task 453).
- 3. Using isolation and decontamination techniques to prepare examination or treatment room or area and clean up afterwards for patient with infectious or communicable condition (Task 166).
- 4. Participating in meeting of nursing personnel in x-ray department (Task 295).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147. Same scale value appears in: 149 150 151 152. Higher scale value appears in: 153 154 155 156 157 158 159 160 161.



CURRICULUM OBJECTIVE SHEET

Page 1 of

Type of Objective	Ski	.11		1	Fac	tor IV	No.	14	9
Skill or Knowledge	Category	Conse	uences	of E	rror to	Humans.	Scale	Value	3:0
Occupation. Patien	nt Care Te	chnicia	in .		1	6		Level	2
Refers to Task Code	e No(s).:	33 143	181 18	5 243		,	4	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>	•	•	, ,			7:	•	•

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or secrety as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Removing any patient's sutures (Task 33).
- 2. Chheterizing any female urethra as ordered (Task 143).
- 3. Catheterizing any male or female patient's urethra with retention balloon catheter (Task 181).
- 4. Administering oxygen from portable or piped outlet unit using oronasal or nasal mask according to MD's orders (Task 185).
- 5. Restraining any patient (Task 243).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry out.

Cross Reference Footnotes: See The Following Corriculum Objectives: Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 Same scale value appears in: 148 150 151 152.

Higher scale value appears in: 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECT	IVE SHEET.		•	•	*	I	age 1	o f
Type of Objective				Factor		No.	- 1	50 .
Skill or Knowledg	e Category	Consequence	s of Err	or to Hum	nans	Sċale	Value:	3:0
Occupation	uafity Assu	rance Aide					Leve1	1
Refers to Task Co	de No(s).:	,70.79	••	j		- '9		•
<u> </u>		· 1		\$ * _	ļ. ·			
	· · · · · · · · · · · · · · · · · · ·			* .	ia.	, ,		
Is there Cross Re	ference?	Yes(X)	No(') If	yes, se	e footno	te(s).	, ,	

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:).

- 1. Inspecting, cleaning, and readying x-ray film hand processing equipment for use (Task.70).
- 2. Preparing barium sulfate contrast medium as ordered or for standard use (Task 79).
- To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale Value appears in: 138 139 140 141 142 143 144 145 146 147. Same scale value appears in: 148 149 151 152.

Higher scale value appears in: 153 154 135 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET			<u> </u>	Page 1 of]
	Skill	· Factor V	I . No.	151
Skill or Knowledge Category	/ Consequences	of Error to Human	s Scale	Value 3.0
	rance Technician			Level 2.
Refers to Task Code No(s)	276 527 529 530	0 534 549	, ,	\

Is there Cross. Reference? ... Yes(X) No(') If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of error en after proper training, in the performance of the following tasks.

- 1. Making minor adjustments or repair on automatic x-ray film processor (Task 276).
- 2. Retrieving, displaying, and making photographs, printouts and/or magnetic tape records of computerized transverse axial tomographic (C.T.T.) scans (Task 527).
- 3. Checking x-ray field limitation, x-ray receptor and light field alignment; minimum TOD, TFD, and field size indicators for diagnostic x-ray equipment (Task 529).
- 4. Checking fluoroscopic and spot film x-ray field limitation, x-ray field and image receptor alignment, maximum TID, minimum TOD, and other requirements (Task 530).
- 5. Providing visual and radiographic or fluoroscopic inspection of personnel shielding devices such as leaded gloves, aprons, sheets, gonadal shields (Task 534).
- 6. Checking the leakage radiation rate from the source assembly of diagnostic x-ray equipment (Task 549).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147. Same scale value appears in: 148 149 150 152.

Higher scale value appears in: 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET	. , *	<u> </u>	Page	1 of 1
Type of Objective · Ski	.11' ' _	Factor. I	II No.	152 •
Skill or Knowledge Category	Consequences	of Error to Human	s Scale Valu	ie <u>`3.0'</u>
Occupation Radiologic Tech	nologist	•		1 3
Refers to Task Code No(s) .:	· 369 467			
, '	·			

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- Preparing, transporting, setting up and returning mobile portable. radiography equipment for bedside radiography (Task 369).
- Taking radiographs of a pregnant patient's, uterus for intra-uterine transfusion (Task 467).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147. Same scale value appears in: .148 149 150 151.

Higher scale value appears in: 153 154 155 156 157 158 159 160 161.

CURRICULUM OBJECTIVE SHEET.	<u> </u>	·	Page 1 of 1
Type of Objective - S	kill \	Factor IV	No153
Skill or Knowledge Category	Consequences of E	rror to Humans	Scale Value 5.5
Occupation Patient Care Ai	.de		Level <u>1</u>
Refers to Task Code No(s):	190 282 521		·
·	•		<u> </u>
	,		
.1s there Cross Reference?	.Yes(X)No() *	If yes, see footno	te(s)4

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Assisting patient to or from wheelchair, stretcher, bed, or table, and/or transporting patient to designated area (Task 190).
- 2. Escorting adult out-patients to and/or from dressing rooms, treatment rooms, and/or waiting areas (Task 282).
- 3. Applying digital or manual pressure to any patient's arterial or venous puncture site as ordered (Task 521).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152.

Same scale value appears in: 154 155 156 157. Higher scale value appears in: 158 159 160 161.



CURRICULUM OBJECTIVE SHEET			Page 1, of 1
Type of Objective S	kill	Factor IV	No. 154
Skill or Knowledge Category	Consequences of Er	ror to Humans	Scale Value 5.5
Occupation Patient Care	Technician	,	Level 2
ers to Task Code No(s).:	65 280 296 298 299	522 -	•
	,		
	F		
Is there Cross Reference? .	Yes(X)No() I	f yes, see footno	te(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Preparing specimens such as extravascular body fluids, washings, cell and/or tissue biopsies for transportation to laboratory (Task 65).
- 2. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer (Task 280).
- 3. Providing first aid in x-ray department emergency (Task 296).
- 4. Administering medication orally to any patient according to MD's orders (Task 298).
- 5 Administering subcutaneous or intramuscular injection for any patient according to MD's orders (Task 299).
- 6. Applying pressure dressing to arterial or venous puncture site (Task 522).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 138 139 140 141 142 143-144 145 146 147 148 149

150 151 152.

Same scale value appears in: 153 154 155 156 157. Higher scale value appears in: 158 159 160 161.

CURRICULUM OBJECTIVE SHEET

Page 1 of

Type of Objective Skill Factor VI No. 155
Skill or Knowledge Category Consequences of Error to Humans Scale Value 5.5
Occupation Quality Assurance Aide Level 1
Refers to Task Code No(s): 69 71 80 192 273 304 551 552

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- Processing exposed x-ray film in automatic processor (Task 69).
- 2. Processing exposed x-ray film manually (Task 71),
- 3. Preparing materials or trays with medications and materials for special treatments or procedures according to standard orders (Task 80).
- 4. Inspecting, checking, preparing xeroradiography equipment for use (Task 192).
- 5. Cleaning, inspecting, and readying automatic x-ray film processor(s) for use (Task 273).
- 6. Readying emergency cart (Task 304).
- 7. Preparing personnel radiation monitoring dosimetric film or TLD badges and distributing (Task 551).
- Collecting and/or distributing personnel monitoring dosimetric badge inserts and preparing for outside or in-house processing and reading (Task 552).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most strious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 .
150 151 152.

Same scale value appears in: 153 154 156 157. Higher scale value appears in: 158 159 160 161.

CURRICULUM OBJECTIVE SHEET

Type of Objective Skill Factor

Page 1 of 2

 Type of Objective
 Skill
 Factor VI
 No.
 156

 Skill or Knowledge Category
 Consequences of Error to Humans
 Scale Value
 5.5

 Occupation
 Quality Assurance Technician
 Level
 2

 Refers to Task Code No(s):
 178 280 523 524, 525 531 532 533 536 537 538 539 544

 553 554 556 556 556 556

Is there Cross Reference? ... Yes(X) ... No(') If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate agareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Checking, preparing fluoroscope controls (and phototimer) (Task 178).
- 2. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer (Task 280).
- 3. Preparing computerized transverse axial tomography (C.T.T.) equipment for use (Task 523).
- 4. Providing preventive maintenance for display tube surface, camera, disc and/or tape drive units, and/or scanning assembly (especially water-using head box assembly) of computerized transverse axial tomography (C.T.T.) equipment (Task 524).
- 5. Checking calibration and accuracy of C.T.T. equipment by making test scans (Task 525):
- 6. Testing whether diagnostic x-ray tube overload protection and/or effective focal spot size meet acceptable standards (Task 531).
- 7. Checking and/or performing direct calibration tests of diagnostic radiography equipment exposure timers (Task 532).
- 8. Checking automatic exposure termination of diagnostic radiography equipment (Task 533).
- 9. Providing visual and/or manual inspection of diagnostic radiography system (Task 536).
- 10. Checking diagnostic tomography x-ray equipment for mechanical operation, fulcrum position, resolution, exposure uniformity, and/or grid alignment (Task 537).
- 11. Estimating HVL and checking adequacy of filtration of diagnostic x-ray equipment (Task 538).
- 12. Chécking bucky grid alignment and/or centering in diagnostic radiography equipment (Task 539).

CURRICULUM	OBJECT	IVE SHEET	(continued)

Page 2 of

Type of Objective Skill Factor VI No. 156
Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 5.5.

Content Continued 6

- 13. Determining exposure characteristics of x-ray and/or dosimetric films (Task 544).
- 14. Reading and recording exposure from personnel monitoring film of thermoluminescent dosimeters (Task 553).
- 15. Entering, evaluating occupational radiation exposure data and initiating action on dangerous levels (Task 554).
- •16. Calibrating diagnostic x-ray test / survey, or measuring instruments (Task 556).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid errors, and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 150
151 152.

Same scale value appears in: 153 154 155 157. Higher scale value appears in: 158 159 160 161.



CURRICULUM OBJECTIVE SHEET			, rage ,1 or 4
Type of Objective - Ski	11	Factor III	No. 157
Skill or Knowledge Category	Consequences of Erro	r to Humans ·	Scale Value 5.5
Occupation Radiologic Tech		,	Level 3
Refers to Task Code No(s) .:	81 280 355 356 357	358 359 362 364	371 377 378 379
381 382 384 385 386 514 516	526		

Is there Gross Reference? ... Yes(X) .:. No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Providing technical quality review of "plain film" radiographs (Task 81)
- 2. Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer (Task 280).
- 3. Taking plain film radiographs of fingers, hand(s) or wrist(s) of non-infant patient (Task 355).
- 4. Taking plain film radiographs of forearm and/or elbow joint of non-infant patient (Task 356).
- 5. Taking plain film radiographs of humerus and/or shoulder girdle of non-infant patient (Task 357).
- 6. Taking plain film radiographs of toes, foot and/or ankle joint of non-pediatric patient (Task 358).
- 7. Taking plain film radiographs of leg(s), knee(s) and/or femur(s) of noninfant patient (Task 359).
- 8. Taking plain film radiographs of sternum, ribs and/or thoracic viscera of non-infant patient (Task 362).
- 9. Taking radiographs of anterior portion of the neck of non-infant patient (Task 364).
- 10. Taking operative cholangiograms, pancreatograms or similar operative radiographs of any patient (Task 371).
- 11. Taking positive contrast arthrograms (especially of knee) of any patient (Task 377):
- 12. Taking bronchograms of a non-peodiatric patient (Task 378).
- 13. Carrying out radiologic technology for bronchoscopy or needle lung biopsy of a non-pediatric patient (Task 379).
- 14. Taking upper GI radiographs of non-pediatric patient (Task 381).



CURRICULUM OBJECTIVE SHEET (continued)

Page 2 - of 2

Type of Objective Skill Factor III No. 157
Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 5.5

Content Continued

- 15. Taking small intestine intubation radiographs of a non-pediatric patient (Task 382).
- 16. Taking oral cholecystograms and cholangiograms of non-infant patient (Task 384).
- 17. Taking intravenous cholangiograms and cholecystograms of non-infant patient (Task 385).
- 18. Taking percutaneous or T-tube cholangiograms of non-infant patient (Task 386).
- 19. Taking selective thyroid angiograms of any patient (Task 514)
- 20. Taking percutaneous splenoportograms of any patient (Task 516).
- 21. Taking computerized transverse axial tomographic (C.T.T.) scans of any patient (Task 526).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149
150 151 152

Same scale value appears in: 153 154 155 156. Higher scale value appears in: 158 159 160 161.



_	CURRICULUM OBJECTIVE SHEET			Page 1 OI
	Type of ObjectiveSk	111.	Factor IV	No. 158
	Skill or Knowledge Category	Consequences of E	rror to Humans	Scale Value 7.0 .
	Occupation Patient Care A	ide	٠,	Level 1
	Refers to Task Code No(s) .:	27.1		
		4		7
	Is there Cross Reference?	.Yes(X)No() I	f yes, see footnot	e(st):
				<u> </u>
ē	Content: A graduate of the	program at this edu	icational level mus	st be able to

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the penformance of the following task:

1. Deciding whether to call staff person to evaluate whether unusual ECG reading is artifact, or calling physician in case of serious patient distress (Task 271).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141-142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157.

Same scale value appears in: 159 160 161.

CURRICULUM OBJECTIVE SHEET	· * _	rage I OI I
Type of Objective Skill	Factor IV	No. 159
Skill or Knowledge Category Consequences o	f Error to Humans	Scale Value 7.0
Occupation Patient Care Technician		Level 2
Refers to Task Code No(s).: 308	,	
		,
	Y.	
Is there Cross Reference? Yes (X) No (') If yes, see footno	te(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-prkers, or society as a whole, as a result of errors, even after proper training, in the performance of the following task:

1. Setting up and monitoring any patient's electrocardiogram during special -procedure (Task 308).

To accomplish this, the student must be able to indicate the harm that can . be done to humans at every point in the steps of the task. The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower seale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157.

Same scale value appears in: \$158,760-161.



CURRICULUM OBJECTIVE SHEET	·		as .	Page 1 of 1
Type of Objective / Ski		Facto		No. 160
Skill or Knowledge Category		Error to H	umans	Scale Value 7.0
Occupation Quality Assuran	ce Technician .	z= .		Level 2
Refers to Task Code No(s) .:	535 540 543 54	45 548 550	-,	,
				-
	•			

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Performing calibration tests of kVp, mA, mAs, exposure rates, reproducibility on diagnostic radiography equipment using direct measuring instruments and/or radiographic comparisons (Task 535).
- 2. Checking fluoroscopic automatic brightness control system and/or focus, resolution, and distortion of the optical system (Task 540),
- 3. Monitoring and evaluating x-ray film processors (Task 543).
- 4. Monitoring patient exposure rates for routine diagnostic x-ray protedures (Task 545).
- 5. Checking maximum entrance exposure rate and primary barrier transmitted radiation rate for fluoroscopic equipment (Task 548).
- 6. Conducting protection survey of stray radiation within diagnostic x-ray installation and transmission across primary and secondary protective barriers (Task 550).

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry this out.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157.
Same scale value appears in: 158 159 161 and level 5.



CURRICULUM OBJECTIVE SHEET

Page 1 of 4

Type of Objective Skill - Factor III No. 161
Skill or Knowledge Category Consequences of Error to Humans Scale Value 7.0**
Occupation Radiologic Technologist Level 3
Refers to Task Code No(s): 360 361 363 365 366 367 368 370 372 373 374 375 376
380 383 387 388 389 390 463 464 465 491 492 493 494 495 496 497 498 499 500 501
502 503 504 505 506 507 508 509 510 511 512 513 515 517 518 519
Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s)

Content: A graduate of the program at this educational level must be able to display an appropriate awareness of what harm can be done to self, patients, co-workers, or society as a whole, as a result of errors, even after proper training, in the performance of the following tasks:

- 1. Taking plain film radiographs of pelvis, hips and/or upper femora of non-infant patient (Task 360).
- 2. Taking plain film radiographs of vertebral column of non-infant patient (Task 361).
- 3. Taking plain film radiographs of abdominal contents of non-infant patient (Task 363).
- 4. Taking plain film radiographs of the skull and/or face of non-infant patient (Task 365).
- 5. Taking plain film radiographs of the paramasal sinuses of a non-infant patient (Task 366).
- 6. Taking preliminary localization radiographs of foreign bodies in orbit or eye of non-infant patient (Task 367).
- 7. Taking mammograms (radiography or xeroradiography) of non-infant patient (Task 368).
- 8. Taking operative orthopedic radiographs of any patient (such as in hip pinning) (Task 370).
- 9. Taking intravisceral or isolated operating room radiographs of any patient (Task 372).
- 10. Taking operating room radiographs for opaque foreign body search (Task 373).
- 11. Taking tomograms of non-infant patient (Task 374).
- 12. Taking sialograms of any patient (Task 375).
- 13. Taking lymphangiograms or lymphadenograms of any patient (Task 376).
- 14. Providing technical assistance for laryngography or cleft palate study of any patient (or any similar fluoroscopic examination including spot filming and/or cineradiography) (Task 380).

CURRICULUM	OBJECTIV	E SHEET	(continued)
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Page 2. of 4

Type of Objective Skill Factor III No. 161
Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 7.0

Content Continued

- a 15. Taking barium enema radiographs of non-pediatric patient (Task 383).
- 16. Taking intravenous pyelograms and urograms of non-pediatric patient (Task 387).
- 17. Taking infusion nephrotomograms of any patient (Task 388).
- 18. Taking percutaneous antegrade or renal cyst pyelograms of non-infant patient (Task 389).
- 19. Taking cystograms and voiding cystourethrograms of any patient (Task 390).
- 20. Taking retrograde pyelograms and ureterograms of non-pediatric patient (Task 463).
- 21. Providing technical assistance for an examination of any patient requiring fluoroscopic control and spot filming (Task 464).
- 22. Taking pelvic pneumograms and/or hysterosalpingograms of non-pediatric female patient (Task 465).
- 23. Taking plain film radiographs of the skull of infant patient (Task 491).
- 24. Taking plain film radiographs of vertebral column of infant patient (Task 492).
- 25. Taking plain film radiographs of the upper extremities of infant patient (Task 493).
- 26. Taking radiographs of neck, chest of infant patient (Task 494).
- 27. Taking plain film raddographs of abdomen of infant patient (Task 495).
- 28. Taking plain film radiographs of the lower extremities of infant or pediatric patient (Task 496).
- 29 Taking radiographs for choanal atresia study of infant patient (Task 497)
- 30. Taking bronchograms of a pediatric patient (Task 498).
- 31. Taking upper GI radiographs of pediatric patient (Task 499).
- 32. Taking barium enema, intussusception or defecography radiographs of pediatric patient (Task 500).
- 33. Taking percutaneous peritoneograms/herniograms of pediatric patient (Task 501).



Page 3 of 4

Type of Objective Skill Factor III. No. 161 Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 7.0

Content Continued

- 34: Taking excretory intravenous inferior vena cavograms and urograms of pediatric patient (Task 502).
- 35. Taking genitograms or fistulograms of any patient for intersex, external fistula or sinus tract examination (Task 503).
- 36. Taking cerebral angiograms or venograms of any patient (Task 504)
- 37. Taking pneumoencephalograms or brain ventriculograms of any patient (Task 505).
- 38. Taking positive contrast spinal or posterior fossa myelograms of any patient (Task 506).
- 39. Taking diskograms of any patient (Task 507).
- 40. Taking air or gas contrast myelograms of any patient (Task'508).
- 41. Taking spinal cord angiograms of any patient (Task 509).
- 42. Taking peripheral angiograms of any patient (Task 510)* =
- 43. Taking catheter thoracic and/or abdominal aortograms of any patient, and/or selective visceral arteriograms (bronehial or abdominal) (Task 511).
- 44. Taking sélective pelvic angiograms of non-pediatric gravid or non-gravid female patient (Task 512).
- 45. Taking intravenous angiocardiograms of any patient (Task 513).
- 46. Taking catheter inferior vena cavograms and/or renal or adrenal venograms of non-infant patient (Task 515).
- 47. Taking selective subclavian arteriograms of non-pediatric patient for thoracte outlet syndrome evaluation (Task 517).
- 48. Taking selective pulmonary angiograms or selective angiocardiograms of any patient (Task 518).
- 49. Taking percutaneous coronary arteriograms and/or left ventriculograms of any patient (Task 519).

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Page 4 of 4

Type of Objective Skill Factor III No. 161
Skill or Knowledge Cagegory Consequences of Error to Humans Scale Value 7.0

, Content Continued

To accomplish this, the student must be able to indicate the harm that can be done to humans at every point in the steps of the task(s). The student should be able to indicate what the most obvious errors during learning would be, the most serious likely error after proper training has been accomplished, what the consequences for humans would be, should be able to state what should be done to avoid error(s), and should be able to carry that out.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 156 155 156 157.

Same scale value appears in: 158 159 160 and levels 4 and 5.

CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective · Knowledg	je	FactorIII	
Skill or Knowledge Category	11731000		Scale Value 2.5
Occupation Radiologic Techno	logist		Level 3
Refers to Task Code No(s) .: 35	3 362 363 368 371	376 <u>378 381 382</u>	<u>383 384 385 386</u>
387, 388, 389, 390, 463, 465, 496, 5	500 501 502 503 51	1 512 513 515 51	8 519
	1		*
Is there Cross Reference?Y	es(X)No() I	f yes, see footno	te(s).
· · · · · · · · · · · · · · · · · · ·		<u> </u>	
Content: A graduate of the pr demonstrate mastery of th	ogram at this edu e following subje	cational level muect area	ist be able to

Normal Structure and Function (human anatomy and physiology; an overview of the nature of normal structure, function, and/or interrelationships of systems and processes)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion requiring an overview of normal human anatomy and physiology as it relates to radiographic examinations, use of equipment, or patient care (Task 353).
- 2. Applying information about normal structure and function to take account of patient's size, sex, body type, muscularity or other tissue characteristics in relation to centering, positioning of patient, selection of film size, and selection of technical factors for radiographic examination requested (all tasks listed except 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Higher scale value appears in level 4

CURRICULUM OBJECTIVE SHEET <u>Page l of</u> Type of Objective Knowledge Factor III No -163 Skill or Knowledge Category 11731100 Scale Value 2.5 Level Occupation Radiologic Technologist Refers to Task Code No(s).: 372 464 If yes, see foothote(s). Is there Cross Reference? ... Yes(X) ... No()

<u>Content</u>: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking intravisceral or isolated operating room radiographs, considering the area of the body indicated on requisition in terms of patient's size, sex, body type, muscularity in order to select technical factors and film size (Task 372).
- 2. In assisting with fluoroscopy and spot filming, considering the part of the body involved in order to prepare equipment and preselect fluoroscopic and spot film technique (Task 464).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum, Objectives: Higher scale value appears in: 164 165 166 167 168.

CURRICULUM OBJECTIVE SHEET	<u> </u>	Page 1 of 1
Type of Objective Knowledge	.Factor VI	No. 164
Skill or Knowledge Category 11731100		Scale Value 3.5 ·
Occupation Quality Assurance Technician		• 1 Level 2
Refers to Task Code No(s): 78 527		
•	*	
		·
Is there Cross Reference? Yes(X) No()	If yes, see footn	ote(s).
	<u> </u>	
Content: A graduate of the program at this	educational level m	u st be ab le to

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In checking and jacketing patients' radiographs, being able to match requisition with the area demonstrated on radiographs and right or left designation when information is missing (Task 78).
- 2. In retrieving, displaying and copying computerized transverse axial scans, being able to select display controls so that picture demonstrates the area of interest requested with appropriately sharp density gradation for the tissues in the area of interest (Task 527).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 163. Same scale value appears in: 165.

Higher scale value appears in: 166 167 168.

CURRICULUM OBJECTIVE SHEET

Page 1 of

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body).

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. After reading requisition sheet indicating area of interest, being able to select appropriate film size, patient positions and centering to demonstrate the part of the body involved; being able to consider internal structures in relation to patient positions, taking account of patient's age, sex, size and body type as appropriate for the area of interest (all tasks listed).
- 2. Considering appropriate shielding for radiosensitive tissue by considering the direction of the central ray and the proximity of tissues in the area of interest to radiosensitive tissues (all tasks listed).
- 3. Positioning patient in relation to film and x-ray beam to obtain views requested; selecting technical factors appropriate to the area of interest and tissue type involved (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 163 Same scale value appears in: 164.

Higher scale value appears in: 166 167 168.

* 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519.



CURRICULUM OBJECTIVE SHEET

Page, 1 of 1

Type of Objective Knowledge Factor VI No. 166

Skill or Knowledge Category 11731100 Scale Value 5.5

Occupation Quality Assurance Technician Level 2

Refers to Task Code No(s): 545

Is there Cross Reference? \...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In monitoring patient exposure rates for routine diagnostic x-ray procedures, being able to take account of the areas of interest and standard positions in relation to modality, accessories, and technical factors; considering use of shielding in relation to areas of interest (Task 545).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 163 164 165.

Same scale value appears in: 167 and level 5.

Higher scale value appears in: 168.

CURRICULUM OBJECTIVE SHEET	•	1	Page"l of
Type of Objective Knowledge	Factor VI	No.	167
Sk#11 or Knowledge Category 11731100	, 	Scale	Value 5.5
Occupation Radiologic Technologist	•		Level 3
Refers to Task Code No(s): 81 374 526		•	•
Is there Cross Reference? Yes(X) No() If	yes, see footnot	e(s).	

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In providing technical quality reviews of "plain film" radiographs, being able to evaluate whether the area of the body is properly demonstrated for diagnostic purposes given the area of interest, requisition sheet, and appearance of images in relation to appropriate standards of detail, definition, sharpness, inclusion and exclusion requirements for the examination (Task 81).
- In taking tomograms of a patient, being able to read requisition sheet and consider for the area of interest the effect of patient's body type, size, tissue type and sex on selection of film size, technique, patient positions, shielding of radiosensitive tissues adjacent to area of interest, as well as centering, localization of tumor, and selection of layer height and amplitude (Task 374).
- 3. In taking computerized transverse axial scans, being able to read requisition sheet and, from area of interest, be able to select technical factors, scan level, shielding; being able to select display controls so that picture demonstrates the area of interest requested with appropriately sharp density gradation for the tissues in the area of interest (Task 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 163 164 165.

Same scale value appears in: 167. Higher scale value appears in: 168.



CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective Knowledge	Factor	III !	vo. <u>168</u>
Skill of Knowledge Category 11731100'	-	i Sc	cale Value 7.0
Occupation Radiologic Technologist		6	Level <u>3</u>
Refers to Task Code No(s): 353	- , - , - ,		.
	•	<u>. </u>	
Is there Cross Reference? Yes(X)	No(-) If yes, see	footnote	(s).
			<u> </u>
Content: A graduate of the program at	this educational l	evel must	be able to
demonstrate mastery of the followi	ng subject area	,	

Regional Anatomy (includes head and neck, thorax and abdomen, pelvis and perineum, lower and upper limbs, and skeleton; internal structure and connections between major parts, systems, and sections of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In meeting of diagnostic x-ray department, being able to raise issues, comprehend and participate in discussions dealing with patient care, positioning, shielding, new equipment, examination procedures that involve specific regions of the body, internal structures, and connections between parts, sections, and systems of the body (Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 163 164 165 166 167.

Same scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET	rage 1	or r
Type of Objective Knowledge-	Factor IV No. 169	
.Skill or Knowledge Category 11731200	Scale Value_	1.5
Occupation Patient Care Aide		. 1
Refers to Task Code No(s): 199 262	<i>5</i> 20 ·	
	· · · · · · · · · · · · · · · · · · ·	
1		
'Is there Cross Reference? Yes(X).	No() If yes, see footnote(s).	
Content: A graduate of the program a demonstrate mastery of the follow	at this educational level must be able to	••

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In taking vital signs, being able to locate pressure points for pulse, blood pressure (Task 199)
- 2. In taking ECG or preparing patient for ECG monitoring, being able to locate appropriate points for placement of electrodes (Tasks 262, 520).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 170 171.

Higher scale value appears in: 172 173 174 175 176.



CURRICULUM	OBJECTIVE SHEET	·/ `			P	age lof l
Type of Obj	ective Knowledge	e	Factor	IA.	No.	1.70
Skill or Kn	owledge Category	11731200			Scale	Value 1.5
	Patient Care Tech		15 4		· .	Level 2
Refers to T	ask Code No(s) .: 1	8 308				<u>-</u>
•	·	0 #	•	1		
		•				
Is there Cr	oss Reference? ,	res(X)No()	If yes, se	e Þootn	ote(s).	
•		*	_			

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In drawing sample of venous blood, being able to select appropriate site (Task 18).
- 2. In setting up patient for ECG, being able to locate appropriate points for placement of electrodes (Task 308).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 169 171.

Higher scale value appears in: 172 173 174 175 176.



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Type of Objective	Knowledge	Factor II	
Skill or Knowledge Cate	gory 11731200		Scale Value 1.5
OccupationRadiolog	ic Technologist		Level 3
Refers to Task Code No(s):: 373		<u> </u>
		•	
<i>¥</i> ,			
Is there Cross Reference	e?Yes(X)No()	If yes, see foot	note(s).
	the program at this e y of the following sub		must be able to

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking operating room radiographs for opaque foreign body search, being able to designate external reference points for shielding, centering film and x-ray tube, and collimating, or indicating to staff what to do (Task 373).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 169 170.

Higher scale value appears in: 172 173 174 175 176.



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CURRIC	ULUM OBJECTIVE	SHEET			Ē			Page 1.	of 1
Type of	f Objective	(Knowledge		, F	actor	IV	No.	172	
		ategory 1173	1200	:			Scale	Value	2.5
Occupa:	tion <u>Patien</u>	t Care Aide					• ,	Level	1
Refers	to Task Code	No(s).: 193	19	,					
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Is the	re Cross Refer	ence?Yes(X)No()	If ye	s, see	footno	te(s).		
	emonstràte mas	of the program tery of the fo	llowing sub	ject a	rea	,	L.	able (Co	-
•		Anatomy (rela					. 	·	
		to internal st	ructure and	funct	ion of	parts		,	
•	of the body) 🙀 ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′			. •		, 3		-
		wareness and dethe following a			ding ad	equate	to th	e prope	er
1.	3	g patient for s			_				

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 169 170 771
Higher scale value appears in: 173 174 175 176.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 173

Skill or Knowledge Category 11731200

Occupation Patient Care Technician

Refers to Task Code No(s): 133 296 299

Is there Cross Reference? ... Yes(X) ... No(.) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In administering subcutaneous or intramuscular injection, being able to select proper site to inject (Tasks 133, 299).
- 2. In providing first aid in x-ray department emergency, being able to select proper pressure points to allay bleeding, sites for injections, for ECG electrodes, for application of defibrillator paddles, points for taking pressure and pulse, pressure points to administer closed chest cardiac resuscitation or artificial respiration (Task 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipling and are required for successful completion of the activities Neted above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 169 170 171 172.

Same scale value appears in: 174.

Higher scale value appears in: 175 176.

CURRICULUM OBJECTIVE SHEET

Page l of l

_	CONTINUE OF OPPOSIT	10 0144				
	Type of Objective	Knowled	ige	Factor	III No	
	Skill or Knowledge	Category 41	1731200	;	Sca	le Valge 3-5
	Occupation Rad					Level 3
	Refers to Task Cod	a No(s) .: /3	55 356 357 358 3	59 360 361	362 363 364	365 366
	367 368 370 371 3					
	463 465 466 467 4	68 491 492 49	93 494 495 496 4	7 498 499	500 (*conti	nued below)
Ó	L there Cross Ref	erence? Ye	es(X)No()	If yes, see	footnote(s).
				•		

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awar ess and depth of understanding adequate to the proper performance of the following activities:

In positioning patient, being able to select the appropriate external anatomical reference points to position patient for the specific examination according to the area of the body involved, or to select alternative points if patient is obese and traditional points are obscured by fat; being able to account for bodily habitus in relating external references to internal structures; being able to refer to, draw, or imagine anatomical reference lines to provide appropriate angulation and rotation; being able to locate position of gonads to provide appropriate shielding based on position of patient (all tasks as appropriate).

In positioning patient, being able to take account of location of suspected fractures, unhealed fractures, or presence of foreign bodies and handle patient accordingly (all tasks as appropriate).

To complish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 169 170 171 172.

Same scale value appears in: 173.

Higher scale value appears in: 175 176.

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CURRICULUM OBJECTIVE SHEET	•	<u> </u>	Page 1 of
Type of Objective Knowled	lge .	Factor III	No. 175
Skill or Knowledge Category	4 1731200		Scale Value 5.5
Occupation Radiologic T			Level 3
Refers to Task Gode No(s).:			
• •			·
	• • • • • • • • • • • • • • • • • • • •		
Is there Cross Reference?	.Yes(X)No()	If yes, see foot	note(s).
,, ,	•	<u></u> •	***

Topo aphic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awareness and depth of understanding adequate to the proper performante of the following activities.

- 1. In taking tomograms of any patient, eing able to select appropriate external anatomical reference points to position the patient for any examination according to the area of the body involved, or to select alternative points if the patient is obese; being able to account for bodily habitus in relating external references to internal structures; being able to refer to, draw, or imagine anatomical reference lines to provide appropriate angulation and rotation; being able to locate position of suspected lesion; being able to locate gonads to provide appropriate shielding based on position of patient; being able to take account of location of suspected fractures, unhealed fractures, or presence of foreign bodies and handle patient accordingly (Tasks 374, 526).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities disted above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 169 170 171 172 173 174. Higher scale value appears in: 176.

CURRICULUM OBJECTIVE SHEET.	<u> </u>]	Page 1	of l
Type of Objective Knowl	edge	Factor III	No.	176	
Skill or Knowledge Category	11731200		Scale	Value_	7:0
Occupation Radiologic Te	chnologist.			Leve1	3
Refers to Task Code No(s) .:			 ,	<u> </u>	
	2. 2.		· ·	•	•
	• , •	_			

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Topographic Anatomy (relation of external physical manifestations to internal structure and function of parts of the body)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues or participate in any discussion dealing with the relation of external physical manifestations to internal structure and functioning anywhere in the body (Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 169 170 171 172 173 174 175.

Same scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET					Pa ge l of	1
Type of Objective Knowledge	1910	Factor	III	No.	177	خــ
Skill or Knowledge Category 11731300		, ,		Scale	Value 1.5	<u> </u>
Occupation Radiologic Technologist					Level 3	
Refers to Task Code No(s): 516				•	<u> </u>	
				_	· · · · · · · · · · · · · · · · · · ·	~

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s)

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

*Hematopoietic System (includes blood, red and white blood cells, platelets, and bone marrow, liver, and spleen in their bloodforming function)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking percutaneous splenoportograms, being able to use details of the structure and function of the spleen and its related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Task 516).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above?

Cross Reference Footnote:

Same scale value appears in level 4'.

CURRICULUM OBJECTIVE SHEET			Page 1 of 1
Type of Objective * Knowledge	Factor	IV No.	178′
Skill or Knowledge Category 11731400 ·		Scale	Value 1.5
Occupation Patient Care Aide			Level 1
Refers to Task Code No(s): 262 520 .		<u> </u>	`
***	·		<u> </u>
Is there Cross Reference? Yes(X) No()	If yes, see	footnote(s).	•
		<u>.</u>	<u>~ ~ ~ ~</u>
Content: A graduate of the program at this ed	ucational le	vel must be	able #0
demonstrate memory of the following subj	ect area	, i	· •
	•		
Circulatory System (cardiovascular s	ystem; inclu	des heart,	•
veins, arteries, lymphatics)	1 6		

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking ECG and preparing patient for ECG monitoring, being able to apply understanding of ECG in relation to heart so as to properly apply electrodes and be alert to patient's condition (Tasks 262, 520).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 179 180. Higher scale value appears in: 181.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 179

Skill of Knowledge Category 11731400

Occupation Patient Care Technician Level 2

Refers to Task Code No(s): 18 308

Is there Cross Reference?....Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Circulatory System (cardiovascular system; includes heart, weins, arteries, lymphatics)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In drawing blood from patient, being sufficiently familiar with blood vessels to select appropriate vein (Task 18).
- 2. In setting up and monitoring a patient's ECG, being able to apply understanding of ECG in relation to heart so as to properly apply electrodes and be alert to patient's condition (Task 308).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this disciptine and are required for successful completion of the activities listed above.

Cros ference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 178 180.

Higher scale value appears in: 181.

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Circulatory System (cardiovascular system; includes heart, veins, arteries, lymphatics)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking radiographs of thoracic viscera, excretory intravenous inferior vena cavograms, all angiograms, being able to use details of the structure and function of the cardiovascular system and its related organs to position patient, provide centering and collimation, direct central ray, and select Technical factors (all tasks listed).
- 2. In taking lymphangiograms or lymphadenograms, being able to use details of the structure and function of the lymphatic system and its related organs to position patient, provide centering and collimation, direct central ray, and select technical factors (Task 376).
- 3. In taking angiograms, being able to take account of the involvement of the heart and circulatory system and ECG monitoring in the procedures (Tasks 504, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 178 179.

Higher scale value appears in: 181 and level 4.



CURRICULUM OBJECTIVE SHEET		ì	Page 1 of 1
Type of Objective Knowledge		Factor IV	No. 181
Skill or Knowledge Category 11731400	0	•	Scale Value 2.5
Occupation . Patient Care Technicis	an		· Level 2
Refers to Task Code No(s).:. 296			
		,	·
		· · · · · · · · · · · · · · · · · · ·	
Is there Cross Reference? Yes (X)	No() If	yes, see footn	ote(s).
Content: A graduate of the program a			ust be able to

demonstrate mastery of the following subject area

Circulatory System (cardiovascular system; includes heart, veins, arteries, lymphatics)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an x-ray department emergency, being able to use appropriate details about the anatomy and physiology of the heart and blood vessels to examine feart beat, take ECG, vital signs, and apply measures such as artificial respiration, closed chest cardiac rescitation, defibrillator, injection of cardiac stimulant or application of pressure to appropriate vessels to arrest bleeding (Task 296).

To accomplish these activities the studen must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 178 179 180.

CURRICULUM OBJECTIVE SHEET				Page 1 of 1
Type of Objective Know	ledge	Factor	\mathbf{III}_{v} .	No. 182
Skill or Knowledge Category	11731500		s	cale Value 1.5
Occupation Radiologic Tecl	hnologist			Level 3
Refers to Task Code No(s).:	362 364 374 378 3	79 380 494	497 498 52	26
· r				
				•
Is there Cross Reference?	Yes(X)No()	If yes, see	footnote	(S _k).
				• •

Respiratory System

- at a level of awareness and depth of understanding adequate to the proper performance of the following activities:
- 1. In taking plain films or tomograms of the thoracic viscera, anterior portion of the neck, choanograms, bronchograms, or assisting with bronchoscopy, needle lung biopsy, laryngography, being able to use details of the structure and function of the respiratory system and its related organs in order to position patient, provide centering and collimation, direct central ray, and select bechnical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 183 and level 4.

CURRICULUM OBJECTIVE SHEET		Page 1 of
Type of Objective Knowledge	Factor IV	No183
Skill or Knowledge Category 11731500		Scale Value 2.5
Occupation Patient Care Technician	,	Level2
Refers to Task Code No(8): 296	••	
		•
<i>1</i>		
Is there Cross Reference? Yes(X): No()	If yes, see foo	tnote(s).
<u> </u>		

Respiratory System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing emergency first aid, being able to use details of the structure and function of the respiratory system to open or clear an airway, insert an oral airway or endotracheal tube, administer oxygen, air, or artificial respiration (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Lower scale value appears in: 182.



CURRICULUM OBJECTIVE SHEET	Page 1 of 1
Type of Objective Knowledge Fact	
Skill or Knowledge Category 11731600	Scale Value 1.5
Occupation Radiologic Technologist	Level 3
Refers to Task Code No(s).: 363 374 495 526	
	6,
Is there Cross Reference? Yes(X) No() If yes,	see footnote(s).
•	_

Digestive System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking plain films and tomograms of abdominal contents, being able to use details of the structure and function of the digestive system and its related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 363, 374, 495, 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special 'terms', facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote: Higher scale value appears in level 4. CURRICULUM OBJECTIVE SHEET

Page 1 of

Type of Objective Knowledge Factor III No. 185
Skill Knowledge Category 11731610 Scale Value 1.5
Occupation Radiologic Technologist
Refers to Task Code No(s): 364 374 375 381 494 499

Is there Cross Reference? ... Yes(x) ... No() If yes, see footmote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Mouth, Pharynx (Digestive Function), Esophagus (includes tongue, teeth, and salivary glands)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking plain films and tomograms of the anterior portion of the neck, sialograms, upper gastrointestinal tract contrast films, being able to use details of the structure and function of the mouth, esophagus, salivary glands and related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 364, 374, 375, 381, 494, 499).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale value appears in level 4.

CURRICULUM OBJECTIVE	SHEET	•	Page 1 of 1	
Type of Objective	Knowledge .	Factor III	No. 186	_
Skill or Knowledge		-	Scale Value 1.5	_
Occupation Radiolo			Level 3	
	No(s).: 381 382 499 501			•
•		<u> </u>	, ,	
	•		*	
Is there Cross Refer	ence?Yes(X)No(') I	f yes, see footn	ote(s).	

Stomach and Small Intestine (includes duodenum, jejunum, ileum)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs of the upper gastrointestinal tract, small intestine intubation radiographs, peritoneograms, being able to use the details of the structure and function of the small intestine and its related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 381, 382, 499, 501).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Higher scale value appears in level 4.

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Тy	pe of (Objective	Know	ledge	• ,	- 1	Factor	III	No.	sa 187
Sk	i4l%or	Knowledg	Categor	y 11731	630		* , , ,		cale V	alue 1.5
Юc	cupatio	n Radi	Mogic Te	chnologis	it.	•		* *	_ L	evel 3
			le No(s).				1	· · ·	•	. *
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Is	there	Cross Re	ference?	Yes(X)	No() If ye	es, see	footnote	(s).	
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Co	ntent:	A gradu	ate of th	e program	at this	educat	ional le	eve l must	be ab	le to

Large Intestine (Colon) and Rectum (also includes appendix, anus, and mesentery)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking barium enema radiographs, intussusception or defecography radiographs, peritoneograms, herniograms, being able to use details of the structure and function of the large intestine, rectum and related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 383, 500, 501).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Higher scale value appears in level 4.

CURRIGULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 188
Skill or Knowledge Category 11731640
Occupation Radiologic Technologist
Refers to Task Code No(s): 371 384 385 386 387

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Liver, Billary vstem, and Pancreas (includes gallbladder, cystic duct, bile duct, exercise duct, ampulla of Vater)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In taking operative cholangiograms, pancreatograms, oral or intravenous cholecystograms, cholangiograms, percutaneous or T-tube cholangiograms, and urograms followed by files of biliary tract, being able to use details of the structure and chaction of the liver, biliary system, pancreas and related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 371, 384, 385, 386, 387).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Reference Footnote:

scale value appears in level 4

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

 Type of Objective, Knowledge
 Knowledge
 Factor III
 No. 189

 Skill or Knowledge Category 11731700
 Scale Value 1.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 363 387 388 389 390 463 495 11 502 526

Is there Cross Reference? ... Yes(X) ... No(/) If yes, see footnote(s).

Continue: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Urinary System (includes kidney, ureter, bladder, urethra, external genitalia).

at a level of awareness and depth of understanding adequate to the proper, performance of the following activities:

1. In taking plain films of abdominal contents, intravenous pyelograms, urograms, infusion nemrotomograms, percutaneous antegrade or renal cyst / pyelograms, cystograms, voiding cystourethrograms, retrograde pyelograms, ureterograms, peritoneograms, herniograms, excretory intravenous inferior vena cavograms followed by urograms, or computerized transverse axial scans of abdominal contents, being able to identify the details of the structure and function of the urinary system and its related organs to position patient, provide centering and collimation, direct central ray, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline are required for successful completion of the activities disted above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 190 191 and level 4.

CURRICULUM OBJECTIVE SHEET		<u> </u>	Page 1 of 1
Type of Objective Knowledge		Factor IV	No. 190
Skill or Knowledge Category 1173	31700		Scale Value 2.5
Occupation Patient Care Technic	cian 🕳	* * * - *	
Refers to Task Code No(s): '143		,	,
		- 4	1

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Urinary System (includes kidney, ureter, bladder, urethra, external genitalia)

at a level of awareness and depth of perstanding adequate to the proper performance of the following activities:

1. In catheterizing the female urethra, being able to use details of the structure and function of the female urethra, bladder, and external genitalia in order to cleanse patient, insert catheter, and obtain residual urine (Task 143).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this disciption and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 189.

Higher scale value appears in: 191.

CURRICULUM OBJECTIVE SHEET Page 1 of 1
Type of Objective Knowledge Factor IV No. 191
Skill or Knowledge Category 11/31700 Scale Value 3.5
Occupation Patient Care Technician Level 2
Refers to Task Code No(s).: 181
Is there Cross Reference? Yes(X) No() If yes, see footnote(s).
Content: A graduate of the program at this educational level must be able to

Urinary System (includes kidney, ureter, bladder, urethra, external genitalia)

at a level of awareness and depth of understanding adequate to the proper. performance of the following activities:

1. In catheterizing the male or female wrethra, being able to use details of the structure and function of the male and female wrethra, bladder, and external genitalia in order to cleanse patient, insert catheter, and obtain residual wrine (Task 181).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 189 190.

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Page'1 of

Type of Objective	Knowle	dge	,	•	Fac	ctor	III	1	192	•
Skill or Knowledge	Category	11731800				, • ⁻		Scale	Value	2.5
Occupation - Radiol	ogic Techn	ologist		•	, ·		, 1,5		Level	3
Refers to Task Cod			<u>357 3</u>	58 35	9 360	361 3	62 363	3 364 30	65 36 6	
<u> 367 368 370 375 3</u>										•
467 468 491 492 4										
Is there Cross Ref	erence?	·Ýeś(x)	No	() :	If ves	see	footn	ote(s).	7	

<u>Content</u>: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Musculoskeletal System . .

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In taking radiographs of specific areas of the body listed on requisition, being able to use details of the structure and function of the musculoskeletal system in order to position patient, provide centering and collimation, direct central ray, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 193 194.

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Type of Objective, Knowle	dge	*	Factor	ΙΙΪ	No.	193 [.]	*
Skill or Knowledge Category		•		<u></u>	Scale	Value 3.	<u>5 </u>
Occupation Radiologic Tech	nol o gist		,			Level 3	
Refers to Task Code No(s) .:	374 526			• •	•,	·	
· .		• •		•	·	,	
•			la .		-	•	
Is there Cross Reference?	.Yes(χ) .	No()	If yes, see	footr	ote(s).	•	
		' .				•	
Content: A graduate of the	program a	t this e	educational 1	evel t	nust be	able to '	

Musculoskeletal System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking conventional tomograms and computerized transverse axial scans of appart of the body, being able to use details of the structure and function of the musculoskeletal system in relation to other organs in order to position patient, provide centering and collimation, direct central ray, select scan levels, and/or select technical factors (Tasks, 374, 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curr culum Objectives:

Lower scale value appears in: 192. Higher scale value appears in: 194.



CURRICULUM OBJECTIVE SHEET					Se T OT T
Type of Objective Knowle	dge	Fa	ctor III	No -	194
Skill or Knowledge Category	11731800			Scale Va	1ue_5.5
Occupation Radiologic Tech	nologist			Le	evel 3
· Refers to Task Code No(s) .:			•		
		. 3	•		
Is there Gross Reference? .	Yes(X)No() If yes	, see footn	ote(s).	<i>-</i> -
		·		<u> </u>	

Muschloskeletal System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In providing technical quality review of "plain film" radiographs, being able to evaluate whether the musculoskeletal system is properly demonstrated for diagnostic purposes given the area of interest, requisition sheet, and appearance of images in relation to appropriate standards of detail, definition, sharpness, inclusion and exclusion requirements for the examination (Task 81).
- 2. In meeting of diagnostic x-ray department technologists, being able to raise issues, comprehend and participate in discussions dealing with patient care, positioning, shielding, new equipment, examination procedures that involve the musculoskeletal system (Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate cachnical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 192 193.

Same scale value appears in level /4.



CURRICULUM OBJECTIVE SHEET Type of Objective Knowledge Factor Page 1 of

III Skill or Knowledge Category 11731820 Scale Value 2.5 Radiologic Technologist L**e**vel 363 364 367 375 376 378 379 Refers to Task Code No(s).: 380 381 383 387 388 382 <u>389 390 463 465 466 467 468 495 497 498 499 500 501 502 503 504 505 506 508 </u> **509 510 511 512 513 514 515 516 517 518 519**

Is there Cross Reference? ... Yes (x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Bones and Joints (includes ligaments and tendons)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In taking radiographs of areas of the body other than bones and joints, being able to use details of the structure and function of bones and joints to take account of what movement is available to patient, and to position, center patient, and direct central ray, so that area of interest will be visualized rather than obstructed by bones (all tasks

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 196 197.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Knowledge
 Factor
 III
 No.
 196

 Skill or Knowledge Category
 11731820
 Scale Value
 3.5

 Occupation
 Radiologic Technologist
 Level
 3

 Refers to Task Code No(s):
 355
 356
 357
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Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational Teyel must be able to demonstrate mastery of the following subject area

Bones and Joints (including ligaments and tendons)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs of bones or joints, or making tomograms, being able to use details of the structure and function of the bones and joints and related organs in order to position patient, provide centering and collimation, select level, direct central ray, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

lower scale value appears in: 195. Higher scale value appears in: 197,



CURRICULUM OBJECTIVE SHEET			,	Page 1 of
Type of Objective Knowle	dge /	· Factor	III, I	No.,197
Skill or Knowledge Category	11731820	· _/		Scale Value 7.0
Occupation Radiologic Techno	logist	<i>></i>		Level 3
Refers to Task Code No(s) .: 3	53			
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	, , ,	,		
Is there Cross Reference?	(es(X)No()	If yes, see	e footnote	e(s).

Bones and Joints (includes ligaments and tendons)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In meeting of diagnostic x-ray department technologists, being able to raise issues, comprehend and participate in discussions dealing with patient care, positioning, new equipment, examination procedures that involve bones and joints directly or in connection with other organs of interest (Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 195 196.
Same scale value appears in level 4.



CURRICULUM OBJECTIVE SHEET	٠,		1	Page I of
Type of Objective Knowledge	Factor	III	No.	198
Skill or Knowledge Category 11731910		£4.	Scale	Value 1.5
Occupation Radiologic Technologist		•		Level 3
Refers to Task Code No(s).: 374 504 505 506 507	50,8 509 5	26		
	<u>.</u>		u	
	,			*
Is there Cross Reference? Yes(X) No() Is	f yes, see	footn	ote(s).	
		1		

Central Nervous System (brain and spinal cord)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking skull tomograms or contrast studies such as cerebral angiograms, pneumoencephalograms, brain ventriculograms, myelograms, diskograms, spinal cord angiograms, or computerized transverse axial brain scans, being able to use details of the structure and function of the brain and spinal cord and related organs in order to handle and position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 374, 504, 505, 506, 507, 508, 509, 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET		•		•		Page I	OI]
Type of Objective Knowle	edge	,	Factor	III_	No.	199	
Skill-or Knowledge Category	11731943				Scale	Value	1.5
Occupation Radiologic Techr	ologist			•		Level	3
Refers to Task Code No(s) .:							
		•					•
•	•	, ,	•				
Is there Cross Reference?	.Yes(X)	.No()	If yes, see	footno	te(s).		
			•				
Content: A graduate of the	program at	this ed	ucational le	vel mu	st be a	able to	<u> </u>
demonstrate mastery of	the follow	ing suhi	ect area				

Eye and Optic Nerve.

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking preliminary localization radiographs of foreign bodies in the orbit or eye, being able to use details of the structure and function of the eye and its related organs in order to position patient, provide centering and collimation, direct centeral ray, and select technical factors (Task 367).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote: Same scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET		Page 1 of .
Type of Objective Knowledge	Factor [II]	No. 200
Skill or Knowledge Category 11732222	•	Scale Value 1.5
Occupation Radiologic Technologist	• •	
Refers to Task Code No(s): 374 503 526	•	
	\ \	
Is there Cross Reference?Yes(X)No() If yes, see footn	ote(s).
	•	· · ·

Male Reproductive System

It a level of awareness and depth of-understanding adequate to the proper performance of the following activities:

1. In taking tomograms or genitograms for intersex condition, being able to use details of the structure and function of the male reproductive system and related organs in order to position patient, provide centering and collimation, direct central ray, and select technical factors (Tasks 374, 503, 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Higher scale value appears in level 4

CURRICULUM OBJECTIVE SHEET		·	Page 1 or 1
Type of Objective Knowled	ge > ½	Factor III	No. 201
Skill or Knowledge Category	11732223	·	Scale Value 1.5
Occupation Radiologic Techno	logist	•	Level <u>3</u>
Refers to Task Code No(s) .:	374 465 466 467 468	503 512 526	<u> </u>
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Is there Cross Reference?	.Yes(X)No(.) If	yes, see footno	te(s). 🛎 📑
			•
Content: A graduate of the	program at this educ	ational level mu	st be able to
demonstrate mastery of	the following subje	ct area .	• ,
-		•	\

Female Reproductive System (includes the body changes associated with ovulation, conception and pregnancy, e.g., development of placenta)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking tomograms, pelvic pneumograms/hysterosalpingograms, fetograms, ammiograms, placentograms, uterograms, radiographs for pelvimetry, genitograms for intersex condition, pelvic angiograms, being able to use details of the structure and function of the female reproductive system and related organs in order to position patient, provide centering and collimation, direct central gay, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote: Higher scale value appears in level 4. CURRICULUM OBJECTIVE SHEET

Type of Objective Factor \III Knowledge No . Skill or Knowledge Category 11733200 Scale Value 1.5 Level 3 Occupation Radiologic Technologist Refers to Task Code No(s): 353 362 363 364 366 368 374 375 376 378 379 380 381 382 383 384 385 386 387 388 389 390 463 465 494 495 498 499 500 501 502 504 505 506 508 509 511 512 514 515 516 518 526

Is there Cross Reference? ... Yes(X) ., .No() If yes, seesfootnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Neoplasms (cancerous growths)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with neoplasmic diseases as they affect patient care and radiographic. examinations (Task. 353).
- In taking radiographs, being able to use details about the way neoplasms manifest in the area of interest lister on the requisition sheet so as to properly handle patient, position patient properly, apply immobilization devices safely, and select technical factors (all tasks except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed

Cross: Reference Footnote:

Higher scale value appears in level

CURRICULUM OBJECTIVE SHEET						rage i qi/l
Type of Objective Knowledge		7	Factor	III	No.	203
Skill or Knowledge Category 11733400	``	7			Scale	Value 1.5
Occupation Radiologic Technologist		>		/	_;	Level 3
Refers to Task Code No(s).:, 516						
		<u>-</u>		.5	٤ .	<u> </u>
	-	71.	-	/		
Is there Cross Reference? Yes(X)	No(/If	yes,	footn	ote(s).	ç ^a ?
	• /	<u> </u>	T			

Disorders of Blood and Blood-Forming Organs

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking percutaneous splenoportograms, being able to use details about the way diseases of the spleen manifest so as to properly handle patient, position patient properly, apply immobilization devices safely, and select technical factors (Task 516).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and or procedures which are part of this discipline and are required for successful completion of the activities listed above.

CURRICULUM OBJECTIVE SHEET						Page I	01 1
Type of Objective Knowledg	e '		Factor	III	No.	204	
Skill or Knowledge Category	11733510	-			Scale	Value	1:5
Occupation Radiologic Tech	nologist	-		-	· •	Level	3
Refers to Task Code No(s) .:	504 505 50	6 507 50	8 509				
			•	· ·			`
	• .	. 1				٠,	
Is there Cross Reference?	Yes(X)	.No() ·I	f yes, see	footno	te(s).		_

Disorders of the Central Nervous System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking cerebral angiograms, pneumoencephalograms, brain ventriculograms, myelograms, diskograms, spinal cord angiograms, being able to use details about the way disorders of the central nervous system manifest in the area of interest and affect the patient's behavior so as to properly relate to patient, position patient, apply immobilization devices, and select technical factors (Tasks 504, 505 506, 507, 508, 509).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET				Pa ge I of I
Type of Objective . Knowledge		factor	IV No.	205
Skill or Knowledge Category 1173	3600		Scal	e Value 1a5
Occupation Patient Care Aide	,	•	-	_ Level <u>l</u>
Refers to Task Code Note) .: 199	262 520	•		•
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				<u>:</u>
Is there Cross Reference? Yes	(X)No()	If yes, see	footnote(s)	• • • • • • • • • • • • • • • • • • • •
Content: A graduate of the prog	ram at this	educational le	vel must be	able to

Disorders of the Circulatory System 2

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking vital signs, being able to use details about disorders of the circulatory system so as to recognize abnormal pulse rate and blood pressure and use instruments for their measurement, such as sphygmomanometer, stethescope (Task 199).
- 2. In taking EGG or preparing partient for ECG monitoring, being able to use details about disorders of the heart so as to use the electrocardiograph machine, recognize signs of emergency, and/or take other proper precautions (Tasks 262, 520).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or precedures which are part of this discipping and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives

Same scale value appears in: 206 207.

Higher scale value appears in: 208.



CURRICULUM OBJECTIVE SHEET		•			Page 1 of 1
Type of Objective (Knowle	edge		· Factor	IV No.	206
Skill or Knowledge Category	11733600	, ,		Scale	Value 1.5
Occupation Patient Care Tec	chnician ·	,	•	·	Level 2
Refers to Task Code No(s) .:	308				
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	, (
Is there Cross Reference?	.Yes(X)	No() I	f yes, seė	footnote(s).	

Disorders of the Circulatory System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities.

1. In setting up and monitoring ECG, being able to use details about disorders of the heart so as to use the electrocardiograph machine and recognize unusual or emergency ECG and blood pressure readings as shown on visual oscilloscope display, tracings on paper, or as audio signals (Task 308).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 205 207.
Higher scale value appears in: 208.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Knowledge Factor III No. 207

Skill or Knowledge Category 11733600 Scale Value 1.5*

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s): 353 355 356 357 358 359 360 361 363 364 365 366

367 368 369 374 375 377 378 379 380 381 382 383 384 385 386 387 388 389 390

463 464 465 466 467 468 491 492 493 495 496 497 498 499 (*continued below)

Is there Cross Reference?... Yes(x): No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Disorders of the Circulatory System

at a level of awar, ss and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with disorders of the circulatory system as they affect patient care and radiographic examinations (Task 359).
- 2. In taking radiographs, being able to use details about the way disorders of the circulatory system affect a patient with such disorders so that performer can select safe patient positions, handle patient safely, properly immobilize patient, and so that performer can recognize emergency signs (all tasks listed except Task 353).

To accomplish these activities—the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 205 206. Higher scale value appears in: 208.

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Page 1 of

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Type of Objective. Knowle	ige	Fac	tor III	Ng. 208
Skill or Knowledge Category	11733600			Scale Value 2.5
Occupation Radiologic Tech	nnologist	•	·	Level <u>3 -</u>
Refers to Task Code No(s) .:	362,376 494 502	504 509	510 511 512	<u>513 514 515 516</u>
517 518 519				·
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Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s,

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Disorders of the Circulatory System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking plain films of the heart or excretory intravenous inferior vena cavograms, cerebral or other angiograms being able to use details about the way disorders of the heart and blood vessels manifest in the area of interest so as to properly care for patient, position patient, apply immobilization devices, recognize emergency signs, and select technical factors (all tasks listed except Task 376).
- 2. In taking lymphangiograms or lymphadenograms, being able to use details about the way diseases of the lymphatic system manifest so as to properly handle patient, position and immobilize patient, and select technical factors (Task 376).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 205 206, 207.

Same scale value appears in level 4.

Type of Objective Knowledge Factor III No: 209
Skill or Knowledge Category 11733700.

Occupation Radiologic Technologist
Refers to Task Gode No(s): 363 371 375 381 382 383 384 385 386 387 495 499
500 501.

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to

Disorders of the Digestive System

· demonstrate mastery of the following subject area

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs of abdominal contents, operative cholangiograms, pancreatograms, sialograms, radiographs of the upper gastrointestinal tract, small intestine intubation, or barium enema radiographs, oral or intravenous cholangiograms, cholecystograms, percutaneous or T-tube cholangiograms, intravenous programs followed by cholangiograms, intussus-sus-eption or defecography radiographs, or peritoneograms/herniograms, being able to use details about the way disorders of the digestive system manifest in the area of interest so as to properly care for patient, position patient, safely apply immobilization devices, recognize emergency signs and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale values appear in level 4

CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Knowledge		210
Skill or Knowledge Category 11733800,	Scal	e Value 1.5
Occupation Radiologic Technologist		Level <u>3</u>
Refers to Task Code No(s) .: 353 355 356 357 358	359 360 361 363 364	365 366
367 368 369 375 376 377 381 382 383 384 385 38	387 388 389 390 463	464 465 466
467 468 491 492 493 495 496 497 499 500 501 50	2 503 504 505 (*contin	nued below)

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Disorders of the Respiratory System

at\a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with disorders of the respiratory system as they affect patient care and radiographic examinations (Task 353).
- 2. In taking radiographs, being able to use details about the way disorders of the respiratory system affect a patient with such disorders so that performer can select safe patient positions, handle patient safely, properly immobilize patient; being able to recognize that patient is having respiratory difficulty (all **asks listed except Task 353).

To accomplish, these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this disciption and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 211.

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Page 1 of 1		VE SHEET	CURRICULUM OBJECT
	Factor · III	Knowledge	Type of Objective
Scale Value 2.5		Category ,11733800	Skill or Knowledge
Level 3		liologic Technologist	Occupation Ra
	379 380 494 498	le No(s).: 362 374 378	Refers to Task Co.
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footnote(s).	a() If yes see foot	erence?Yes(X)!	Is there Cross Re
footnote(s).	a() If yes see foo	Ference?Yes(X)1	Is there Cross Re

Disorders of the Respiratory System

- at a level of awareness and depth of understanding adequate to the proper performance of the following activities:
 - 1. In taking plain films or tomograms of the lungs, bronchograms, or assisting with laryngography, being able to use details about the way disorders of the respiratory system manifest in the area of interest so as to properly care for patient, position patient, safely apply immobilization devices, take sanitary precautions, recognize emergency signs, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 210.
Higher scale value appears in level 4.



CORRECTIVE SHEET		I age 1 OL 1
Type of Objective Knowledge	Factor III	No. 212
Skill or Knowledge Category 11733900		Scale Valu 1.5
Occupation Radiologic Technologist	,	Level 3
Refers to Task Code No(s).: 363 387 388 389 390	463 465 466 495	501 502 512
Is there Cross Reference?Yes(X)No() I	f yes, see footno	ote(s).
Content: A graduate of the program at this edu	cational level mu	ist be able to 4

Disorders of the Uro-genital System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In taking plain films of abdominal contents, intravenous pyelograms, urograms, infusion nephrotomograms, percutaneous antegrade or renal cyst pyelograms, cystograms, voiding cystourethrograms, retrograde pyelograms and ureterograms, pelvic pneumograms, hysterosalpingograms, fetograms, amniograms, placentograms, peritoneograms/herniograms, or pelvic angiograms, being able to use details about the way disorders of the uro-genital system manifest so as to properly care for patient, position and immobilize patient safely, recognize emergency signs, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale values appear in level 4.



 CURRICULUM OBJECTIVE SHEET
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 Type of Objective
 Knowledge
 Factor
 III
 No.
 213

 Skill or Knowledge Category
 11734200
 Scale
 Value
 1.5

 Occupation
 Radiologic Technologist
 Level
 3

 Refers to Task Code No(s):
 363 364 367 369 370 374 375 376 378 379 380 381 382

 383 384 385 386 387 388 389 390 463 464 465 466 467 468 495 497 498 499 500

 501 502 503 504 505 506 508 509 510 511 512 513 514 515 516 517 518 519 526

 Is there Cross Reference?
 ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Disorders of the Musculoskeletal System and Connective Tissues

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs of areas of the body listed on the requisition, being able to use details about the way disorders of the musculoskeletal system and connective tissues affect a patient with such disorders so that performer can position, immobilize and handle the patient safely, and demonstrate the area of interest (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale value appears in: 214

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CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge , Factor III No. 214

Skill or Knowledge Category 11734200 Scale Value 2.5

Occupation Radiologic Technologist Level 3 x

Refers to Task Code No(s): 353 355 356 357 358 359 360 361 362 365 366 368 377

491 492 493 494 496 507

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Disorders of the Musculoskeletal System and Connective Tissues

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with disorders of the musculoskeletal system and connective tissues as they affect patient care and radiographic examinations (Task . .353).
- 2. In taking radiographs or tomograms of bones or joints, taking mammograms, being able to use details about the way disorders of the musculoskeletal system and connective tissues manifest so as to properly care for patient, take account of the presence of suspected or unhealed fractures, degenerative diseases with regard to the movement available to the patient, to safely position and immobilize patient, recognize emergency signs, and select technical factors (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears it: 213.

Higher scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET Page 1 of 1
Type of Objective Knowledge Factor III No. 215
Skill or Knowledge Category 11734300 Scale Value 1.5
Occupation Radiologic Technologist Level 3
Refers to Task Code No(s).: -380 496 497 499 500 501 502 503
Is there Cross Reference? Yes(X) No() If yes, see footnote(s).
Content: A graduate of the program at this educational level must be able to

demonstrate mastery of the following subject area

Congenital Abnormalities

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In assisting with cleft palate fluoroscopy, taking plain film radiographs of the lower extremities, taking radiographs for choanal atresia, taking upper GI, barium enema, intersusception, defecography radiographs of pediatric patient, percutaneous peritoneograms/herniograms, excretory intravenous inferior vena cavograms, urograms, genitograms, or fistulograms of pediatric patient, being able to use details about the way congenital abnormalities manifest in the area of interest so as to properly care for patient, position and immobilize patient safely, recognize emergency signs, and select technical factors (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Higher scale value appears in level 4.

URRICULUM OBJECTIV	E SHEET'	<u>- ',</u>	,	· · ·	Page 1	of l
Type of Objective			Factor	IĮI	No2	
Skill or Knowledge	Category 11734	4400		*	Scale Value	1 5
Occupation · Radiolo			*		Lev e 1	3
Refers to Task Code						
•	•	. ♥	_			
	•	· ·			<u>, , , , , , , , , , , , , , , , , , , </u>	
Is there Cross Refe	rence?Yes((X)No()	If yes, see	footnot	e(s).	

Disorders and Complications of Pregnancy, Childbirth and the Puerperium

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking fetograms, amniograms, placentograms, uterograms for intrauterine transfusion; adiographs for pelvimetry, or pelvic angiograms, being able to use details about the way disorders and complications of pregnancy manifest so as to properly eare for patient, position and immobilize patient safely, recognize emergency signs, and select technical factors (Tasks 466, 467, 468, 512).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms; facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Higher scale value appears in level.

CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Knowledge	Factor IV	No. 217
Skill or Knowledge Category 11734600		Scale Value 3.5
· Occupation Patient Care Technician	4	L'evel 2
Refers to Task Code No(s) .: 156		
• • • • • • • • • • • • • • • • • • • •	•	1
Is there Cross Reference? Yes (X)	No() If yes, see footn	ote(s)
	• •	-

Burns

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying information on how burns heal or show infection in order to evaluate healing and report suspicious appearance in connection with orders to irrigate, clean, or dress a burn (Task 156).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 4 of patient care.

CURRICULUM, OBJECTIVE SMEET.	<u> </u>		Page 1 of 1
Type of Objective Knowledge	-	Factor III	No. 218
Skill or Knowledge Category 11734800			-Scale Value 1.5
Occupation Radiológic Technologist			Level <u>.3</u>
Refers to Task Code No(s).: 369 463 4	464		
	,	A.	•
	-	-	***
Is there Cross Reference? Yes(X)	.No() If	yes, see footn	ote(s).

Shock and Trauma

- at a level of awareness and depth of understanding adequate to the proper performance of the following activities:
- 1. In setting up mobile portable radiography equipment for bedside radiography, participating in retrograde pyelography examination, or providing technical assistance for fluoroscopy, after learning that patient is suffering from stock or trauma, applying details about such a condition so as to properly handle patient for the examination, take account of limitations on ratient positioning, movement, type of care required (Tasks 369, 463, 464).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnates: See The Following Curriculum Objectives: Higher scale value appears in: 219 220.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Knowledge
 Knowledge
 Factor
 III
 No.
 219

 Skill or Knowledge Category 11774800
 ...
 Scale Value 2.5

 Occupation Radiologic Technologist
 ...
 Level 3

 Refers to Task Code No(s).: 353 355 356 357 358 359 360 361 362 363 364 365 366
 ...

 367 368 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 465
 ...

 466 467 468 491 492 493 494 495 496 497 498 499 500 501 502 (*continued below)
 ...

 Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).*
 ...

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Shock and Trauma

atea level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with patients suffering from shock or trauma as it affects patient care and radiographic examinations (Task 353).
- 2. In taking radiographs, being able to use details about the way conditions of shock or trauma manifest in the patient so as to properly move and care for patient, position and immobilize safely, recognize emergency signs, and select technical factors; being able to recognize shock reaction in patient (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 218.
Same scale value appears in level 4.
Higher scale value appears in: 220.

* 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 220
Skill or Knowledge Category 11734800
Occupation Patient Care Technician Factor Level 2
Refers to Task Code No(s): 296

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Snock and Trauma

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In emergency situation, being able to recognize the symptoms of a patient suffering from shock or trauma; selecting appropriate first aid or emergency care procedures; evaluating whether patient is responding (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special waterms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities disted above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 218 219.
Higher scale value appears in level 4 of patient care.

*_CURRICULUM OBJECTIVE SHEET	<u></u>	<u> </u>		_	1	Page I OI .	<u>+</u>
Type of Objective Knowledge	\ '	, .	Factor	III		221-	
Skill or Knowledge Category 11	1 35000	` •			Scale	Value 1.5	_
Occupation Radiologic Technolog	ist					Level 3	ï
Refers to Task Code No(s).: 3/2	373	,	: J		*		_
	,	,		<u> </u>	<u>,</u>		_
	• ,	, ,	• •	ጚ.	·		_
Is there Cross Reference? Ye	s(X)	No (4) 1	If yes, see	footno	te(s).,		•

Surgery

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking intravisceral or isolated operating room radiographs or radiographs for opaque foreign body search, being able to use details about operating room surgical procedures so as to set up equipment and carry out radiography in cooperation with operating room staff while the operation is in progress (Tasks 372, 373).

To accomplish these activities the student must have a detailed knowledge of the subject datagory, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnate: Same scale value appears in level 4. CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 222

Skill or Knowledge Category 11735100 Scale Value 1.5

Occupation Patient Care Technician Level 2

Refers to Task Code No(s). 65

Is there Cross Reference? ... Yes(X) No() If yes, see footnote(s).

Content A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Operative Procedures (also includes biopsy, removal of tumors, removal of organs, Caesarian section, removal of drains).

- at a level of awareness and depth of understanding adequate to the proper performance of the following activities:
 - 1. In preparing specimens for transportation to laboratory, being able to use details about biopsy procedures so as to receive specimens and prepare them in cooperation with physician who obtains cell or tissue biopsies (Task 65).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Gross Reference Footnotes: See The Following Curriculum Objectives
Same scale value appears in: 2234
Higher scale value appears in level 4 of patient care.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 223
Skill or Knowledge Category 11735100
Scale Value 1.5
Occupation Radiologic Technologist
Refers to Task Code No(s): 371 379 464

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Operative Procedures (also includes biopsy, removal of tumors, removal of organs, Caesarian section, removal of drains)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking operative cholangiograms, pancreatograms, carrying out raiographic duties in connection with bronchoscopy, needle lung biopsy
or providing technical assistance for biopsies, being able to use
details about operative procedures so as to check and set up equipment
or materials and carry out technical functions in cooperation with
physician in charge (Tasks 371, 379, 464).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms. facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 222 and level 4.

CURRICULUM OBJECTIVE SHEET			Page 1 or 1				
Type of Objective Knowle	edge		Factor	_ III	No.	22	4
Skill or Knowledge Category	117 3 5300		<u> </u>	. 4	Scale	Value	1.5
Occupation Radiofogic Techn	nologist				··-	Lev el	3.
Refers to Task Code No(s) .:		<u> </u>	,			<u> </u>	1
<u> </u>					, ,		-
	•			- 1			
Is there Cross Keference? .	Yes(X)	No()	If yes, se	e footno	te(s).		:
3 1	<u>, , , , , , , , , , , , , , , , , , , </u>	_			1		

Repair Surgery (includes plastic surgery, pedicle revision, surgical graft, anastomosis, fistulization, open reduction, fixation, fusion, stabilization)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking operative orthopedic radiographs such as in hip pinning, being able to use details about operating room repair surgery procedures so as to set up equipment and carry out radiography in cooperation with operating room staff (Task 370):

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote;
Same scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET				Page I of I
Type of Objective Knowledge		Factor	IV No.	225
Skill or Knowledge Category 11735400			Soale	Value 1.5
Occupation Patient Care Technician	,`.			Level 2
Refers to Task Code No(s): 18 65 182				
		*		
	• •	·		
Is there Cross Reference? Yes(X)	No()	If ves. see fo	otnote(s).	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Introductory Procedures (includes injections, transfusion,
irrigation, catheterization, intubation, tracheotomy)

- at a level of awareness and depth of understanding adequate to the proper performance of the following activities:
 - 1. In drawing blood from a patient's vein, being able to apply information on introductory procedures in order to properly use materials, select site, make puncture, check needle position, and draw proper amount of blood (Task 18).
 - 2. Being able to use details about introductory procedures for obtaining specimens such as extravascular body fluids, washings, or biopsies to be ready to receive specimens and prepare them in cooperation with the physician carrying out the procedures (Task 65).
 - 3. In setting up and using suction machine, being able to apply details about catheterization and tracheotomy to properly insert suction catheter into tracheostomy and clear passage (Task 182).

To accomplish these activities the street must have a detailed knowledge of the subject category, covering the ppropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 226 227.
Higher scale value appears in: 228 229 230.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor VI No. 226

Skill or Knowledge Category 11735400 Scale Value 1.5Occupation Quality Assurance Aide

Refers to Task Code No(s): 260 304

Is there Cross Reference? ..., Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Introductory Procedures (includes injections, transfusion, irrigation, catheterization, intubation, tracheotomy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In preparing a hypodermic needle with injection dose as ordered or according to standard amounts, being able to apply information on injection procedures in order to properly use the materials involved and prepare syringes (Tasks 260, 304).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special peterms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 225 227. Higher scale value appears in: 228 229 230.

CURRICULUM OBJECTIVE SHEET-

Page 1 of

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Introductory Projedures (includes injections, transfusion, irrigation, catheterization, intubation, tracheotomy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with introductory procedures as they affect preparation of materials, cooperation with radiologist, and caring for patient in connection with radiographic examinations (Task 353).
- 2. In radiographic examinations, being able to use details about the introductory procedures to be used, such as intravenous injection or infusion of contrast, use of bronchoscope or catheter to instill contrast, percutaneous injection or catheterization in angiography, direct needle puncture, catheterization of urinary tract, sinus tracts, fistulas, brain or spinal puncture, pneumography, to anticipate the materials to be used; being able to prepare or check materials, assist or cooperate with physician or staff member carrying out procedures; being able to properly handle and position patient, select technical factors, and respond to patient's reactions (all tasks listed except Task 353 as appropriate).
- 3. In taking barium enema, intussusception or defecography radiographs, being able to use details about the use of enemas or balloon catheters to explain procedure, prepare patient, insert enema or balloon catheter in rectum, administer enema as ordered, respond to patient's reactions, remove and dispose of enema or balloon catheter, handle and position patient for radiography, cooperate with radiologist for fluoroscopy (Tasks 383, 500).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful complétion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same Scale value appears in: 225,226.

Higher scale value appears in: 228 229 230.

CURRICULUM OBJECTIVE SHEET	·	, ,	•		<u>Page l of l</u>
Type of Objective Know	ledge	•	Factor	IV No.	228
Skill or Knowledge Categor			_	Scale	Value 2.5
Occupation Patient Care	Technician			1	Level 2
Refers to Task Code No(s).	: 143 181				_
·	,	* .			
		_	/-	•	· Prices
Is there Cross Reference?	Yes(X)	NQ(·) If	yes, see i	footnote(s).	
				-	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Introductory Procedures (includes injections, transfusion, irrigation, catheterization, intubation, tracheotomy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. 'In catheterizing a male or female urethra, being able to use details about catheterization to explain procedure to patient, select appropriate size and type of catheter for patient's age, size, sex, and purpose of procedure, check catheter, insert properly, use appropriately, and recognize signs of problem with procedure (Tasks 143, 181):

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts; equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 225 226 227.

Same scale value appears in: 229. Higher scale value appears in: 230.



Type of Objective Knowledge Factor III - No. 229
Skill or Knowledge Category 11735400 Scale Value 2.5
Occupation Radiologic Technologist Level 3
Refers to Task Code No(s): 465

Is there Cross Reference? ... Yes(X) ... No(-) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Introductory Procedures (includes injections, transfusion, irrigation, catheterization, intubation, tracheotomy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In taking pelvic pacumograms and hysterosalpingograms, being able to use details about the introductory procedures involved, such as transvaginal, transuterine, transabdominal inducement of pneumoperitoneum, instillation of contrast, catheterization, in order to explain procedure propare or check materials, assist with catheterization and other procedures, respond to patient, assist after a decision to change procedure properly handle and position patient, and select technical factors (Tash 465).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cros's Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 225, 226, 227.

Same scale value appears in: 228.

Higher scale value appears in: 230 and level 4.

CURRICULUM OBJECTIVE SHEET		<u> </u>		Page 1 of 1
Type of Objective Knowl	edge • •	Factor IV	No.	230
Skill or Knowledge Category	11735400	-	. Scale	Value 3.5
Occupation Patient Care T	èchnician			Level 2
Refers to Task Code No(s) .:	133 296 299		•	
				•
is there Cross Reference?	Yes(X)No()	If yes, see foo	tnote(s).	a
_*,			<u> </u>	<u> </u>
Content: A graduate of the	e program at this ed	ucational level	must be	able to
demonstrate mastery of	the following cubic	act area	•	•

Introductory Procedures (includes injections, transfusion,

irrigation catheterization, intubation, tracheotomy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering medication subcutaneously, intramuscularly, or intracardially as an emergency procedure, being able to apply information on injections in order to select injection site based on purpose, size of dosage, type of medication, patient's age, size, and condition; being able to select and prepare materials, check dosage, expel air, insert needle, check for placement, inject dosage, and withdraw needle (Tasks 133, 296, 299).

To accomplish these activities the student must have a detailed knowledge, of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 225 226 227 228 229.
Higher scale value appears in level 4 of patient care.



CURRICULUM OBJECTIVE SHEET	<u> </u>	Page 1 of 1
Type of Objective Knowledge	Factor III	No. 231
Skill or Knowledge Category 11735500		Scale Value 1.5
Occupation Radiologic Technologist		\cdot Level 3
Refers to Task Code No(s): 379	, <u> </u>	
	·	•
Is there Cross Reference? Yes(X) No()	If yes, see foot	note(s).
Content: A graduate of the program at this e		must be able to

Endoscopy (direct visual observation of bronchi, esophagus, duodehum, colon, etc. with an endoscope)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In carrying out radiologic technology for bronchoscopy, being able to use details about endoscopy to prepare or check materials, select technical factors, assist physician with procedure, respond to patient's reactions, and assist with removal of bronchoscope, and help care for patient (Task 379).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes:

Same scale value appears in level 4., Higher scale value appears in level 4 of patient car

CURRICULUM OBJECTIVE SHEET	<u> </u>	<u>Page 1 of 1</u>
Type of Objective Knowledge	· Factor IV·	No232
Skill or Knowledge Category 11735600		Scale Value 1.5
Occupation Patient Care Technician		Level 2
Refers to Task Code No(s): 33		
	. '•	
Is there Cross Reference?Yes()No(X)	If yes, see foots	ote(s).
Content: A graduate of the program at this e		ust be able to "

. Suture (also includes ligature, suture materials)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In removing patient's sutures, being able to apply information on purpose of sutures, how the sutured areas appear, how to remove, in order to judge whether to remove sutures or report problem; being able to remove sutures appropriately (Task 33).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

CURRICULUM OBJECTIVE SHEET	<u> </u>	Page•l of <u>1</u>
Type of Objective Knowledge	Factor III	No233
Skill of Knowledge Category 11735800	, , , , , , , , , , , , , , , , , , ,	Scale Value 1.5
Occupation Radiologic Technologist		Level <u>3</u> _
Refers to Task Code No(s).: 466 468		<u>, </u>
		<u> </u>
Is there Cross Reference?Yes(X)No	o() ,If yes, see footno	te(s).' *

Content: A graduate of the program at the	his educational level mu	st be able to

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Delivery Methods for Childbirth (also includes the circumstances governing the delivery method chosen such as abnormal presentation of the baby (transverse section, breech) medical history of mother)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking fetograms, amniograms, placentograms, or radiographs for pelvimetry, being able to use details about delivery methods for childbirth to anticipate or judge the patient's stage of labor and decide
whether to proceed with radiography, have patient taken to obstetrics
or report emergency; being able to respond with proper sterile procedures if there is rupture of amniotic membranes, encourage patient to
relax and not bear down at early stage of labor, or otherwise respond
to an emergency (Tasks 466, 468):

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 4.



CURRICULUM OBJECTIVE SHEET

Page 1 of 1

 Type of Objective
 Knowledge
 Factor /III
 No. 234

 Skill or Knowledge Category
 11736000
 Scale Value1.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 370 371 372 373 463 498 511 513 514 516 518 519 526

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Anesthesiology (includes open anesthetics, semiopen, insufflation, absorption, intravenous, infiltration, field, and nerve block methods)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs when patient may be under anesthesia, being able to use details about anesthesiology to determine whether explosive gases will be used and check or select and use x-ray equipment appropriately, discuss appropriate timing of procedures; and/or arrange signals with anesthesiologist for making radiographs when respiration has been arrested as appropriate (all tasks /listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Same scale value appears in level 4.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 235
Skill or Knowledge Category 1173700

Occupation Radiologic Technologist

Refers to Task Code No(s): 353 355 356 357 358 359 360 361 362 363 364 365 366 367 368 3740466 468

Is there Cross Reference? ... Yes(X) ... No() If, yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

First Aid and Care (overview of the approach to and nature of various concepts and procedures involved)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with first aid and care as it affects the condition of patients or their response to radiographic examinations (Task 353).
- 2. In taking "plain film" radiographs of non-pedicatric patients where performer may be alone with the patient for the examination, being able to use details of general first aid and care to notice and respond to signs of emergency, accident, distress, fainting, loss of consciousness, and decide when to call appropriate physician, when to provide emergency first aid (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 236 237.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 236 Skill or Knowledge Category 11737000 Scale Value 3.5

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s): 509 510 511 512 513 514 515 516 517 519

Is there Cross Reference? ...Yes(x) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject are

First Aid and Care (overview of the approach to and nature of the various concepts and procedures involved)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking angiograms of any patient, being able to use details of general first aid and care to notice symptoms of emergency or adverse patient reaction to contrast or procedure and report; being able to cooperate immediately and appropriately with other staff members in assisting with emergency care (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 235.

Same scale value appears in level 4.

Higher scale value appears in: 237.

CURRICULUM OBJECTIVE SHEET Type of Objective Knowledge Factor No. Skill or Knowledge Category 11737000 Scale Value 7.0 Occupation .Patient Care Technician Level ' Refers to Task Code No(s).: 296 Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s). Content: A graduate of the program at this educational level must be able to

demonstrate mastery of the following subject area

First Aid and Care (overview of the approach to and nature of various concepts and procedures involved)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

Using comprehension of general principles of first aid and care and appropriate detailed information to determine when a situation calling for first aid and emergency care exists, to determine the nature and severity of the symptoms, and to select the appropriate procedures (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 235 236. Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET		<u>. </u>					?age_i	<u>ot 1</u>
Type of Objective Knowled	ge		•	Factor	.IV	Ŋa.	238	
Skill or Knowledge Category	11737100		4			Scale	Value	1:5
Occupation Patient Care Aid	e -	-, -		•			Level	1
Refers to Task Code No (s) .:	283`295	•		-		· 15		
	· ' _ ' .				**	<u>.</u>	^	
	-			, .	••-			
Is there Cross Reference?	.Yeş(X) .	No()	Ļf	yes, see	footno	te(s).	•	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Bandages, Dressings, Tourniquets, and Splints

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In changing dry dressing or reinforcing wet dressing, being able to use appropriate bandages and dressings properly (Task 283).
- 2. In participating in meeting of diagnostic x-ray department nursing staff, being able to comprehend, raise issues, of participate in any discussion dealing with bandages, dressings, tourniquets, and splints as they affect patient care (Task 295).

To accomplish these activities the student must, have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 239 240.

Higher scale value appears in: 241 242.



CURRICULUM OBJECTIVE SHEET	1	<u>' </u>	<u> </u>	<u></u>	age lor i
Type of Objective Knowled	lge	Facto	r . IV	No.	239 ·
Skill or Knowledge Category		· · · · · · · · · · · · · · · · · · ·			Value 1:5
Occupation <u>Patient</u> bare Tec	hnician	,		· ·	Level: 2
Refers to Task Code No(s) .:	33 522 ·				*
· .		•		,	
				· - ,	
Is there Cross Reference?	.Yes(X)No() If yes, s	ee footno	ote(s).	
		,			

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Bandages, Dressings, Tourniquets, and Splints ·

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Using appropriate bandages and dressings properly to dress and bandage

a suture wound, or prepare and apply a pressure dressing to an arterial or venous puncture site (Tasks 33, 522).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 238 240.

Higher scale value appears in: 241 242.

CURRICULUM OBJECTIVE SHEET							Page 1	of 1
Type of ObjectiveKnowl	edge	<u> </u>	· .	Factor	III	No.	240	
Skill for Knowledge Category	11737100)		•		Scale	Value	1.5
Occupation Radiologic Tech	nologist				•	· ·	Level	• 3
Refers to Task Code No(s) .:	504 505 5	506 507	508	509 510	511 512	514 5	15 <u>517</u>	518
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, ,								

Is there Cross Reference? ... Yes(X) ... No(). If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Bandages, Dressings, Tourniquets, and Splints

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Assisting with application of various types of tourniquets, sterile dressings for puncture or trephine sites, padding for puncture peedle as ordered (all tasks listed).
- Determining the proper bandages and dressings to be used in connection with the diagnostic examination on the requisition and checking that they are present on the procedure tray (all tasks listed as appropriate).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 238 239.

Higher scale value appears in: 241 242 and level 4.

CURRICULUM, OBJECTIVE SHEET A STATE OF P	age 1 of 1
Type of Objective Knowledge Factor V No.	241
	Value 2.5
Occupation Patient Care Technician	Level 2
Refers to Task Code No(s): 156	
Is there Cross Reference? Yes(X) No() If yes, see footnote(s).	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Bandages, Dressings, Tourniquets, and Splints

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Selecting and applying appropriate bandages, dressings, and slings in proper manner to wounds, burns, or openings for catheters on orders (Task 156).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Lower scale value appears in: 238 239-240.

Higher scale value appears in: 242.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective - Knowle	edge ,	, ,	Factor IV	No. 242	
Skill or Knowledge Category	11737100			Scale Value 3.	<u>5.</u>
Occupation Patient Care Te	chnician			Level 2	∵.
Refers to Task Code No.(s).:	296	• "		,	
			,		_

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Bandages, Dressings, Tourniquets, and Splints



at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an emergency, being able to select and apply proper bandages and dressings in appropriate mander, and apply sterile packing or tourniquet to arrest bleeding (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Lower scale value appears in: 238 239 240 241.

Same scale value appears in level 4 of patient care.

	CURRICULUM OBJECTIVE SHEET		• 4		<u>,</u>		Page 1 of 1
٠	Type of Objective Knowledge	e. •		Fa	ctor <u> </u>		
	Skill or Knowledge Category	117372	200	· · · ·	• , -	Scal	e Value <u>',1,5</u>
	Occupation Patient Care Ai	de		• • • •		· ·	Level 1
	Refers to Task Code No(s):	521	· · · _				
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					_	•	
	Is there Cross Reference?	.Yes(X)	No() , If yes	s, see fo	otnote(s)	
L	Content: A graduate of the	prográm	at this	educatio	mal leve	1 must be	able to
	demonstrate mastery of	the foll		bject a			p ;

Hemorrhage and Bleeding and Their Arrest

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

Using details about bleeding and its arrest to explain the use of digital or manual pressure at an arterial or venous puncture site to patient; being able to apply pressure appropriately to site as ordered, check that bleeding has subsided, decide whether to continue, instruct patient in how to deal with new onset of bleeding (Task 521).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 244.

Higher scale value appears in: 245.



CURRICULUM OBJECTIVE SHEET	,			Page 1 of 1
Type of Objective • Knowledge		Factor	IV No.	244
Skill or Knowledge Category 11737200			Scale	Value. 1.5
Occupation Patient Care Technician	,			Level 2
Refers to Task Code No(s).: 522		•		,
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		. 1	1	
Is there Cross Reference? Yes(X)	.No(),	If yes, see	footnote(s)	•

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Hemorrhage and Bleeding and Their Arrest

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Using details about bleeding and its arrest to decide whether to apply manual pressure to arterial or venous puncture site that has started to bleed again; being able to apply pressure appropriately to site, and explain to patient what is happening (Task 522).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 243.

Higher scale value appears in: 245.



CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Knowledge	Factor IV No.	
Skill or Knowledge Category 11737200'	Scal	e Value 3.5
Occupation Patient Care Technician		Level · <u>2</u>
Rests to Task Code No(s): 296		
		ta f
	• 1 ⁵	
Is there Cross Reference? Yes(X) No()	If yes, see footnote(s)	
	<u> </u>	
Content: A graduate of the program at this do	ducational level must be	able to

Hemorrhage and Bleeding and Their Arrest

demonstrate mastery of the following subject area ...

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an emergency, being able to assess seriousness of bleeding, decide whether to apply direct pressure, sterile packing or tourniquet; in applying proper technique, assessing whether bleeding is being properly arrested (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above:

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in 243 244.

Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET		Page 1 of. I
Type of Objective Knowledge	Factor IV	No. 246
Skill or Knowledge Category •11737300	,	Scale Value 1.5
Occupation Patient Care Aide	•	· Level 1
Refers to Task Code No(s): 153 155 295	, ,	
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		,
Is there Cross Reference?Yes(X)No()	If yes, see footho	te(s).
Content: A graduate of the program at this ed	ucational level mu	st be able to
demonstrate mastery of the following sub	ject area	

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In assisting with restraining or immobilizing patient or in assisting patient in bathroom, being able to apply information on handling of sick patient as appropriate to the patient's condition (Tasks 153, 155).
- 2. In participating in meeting of diagnostic x-ray department nursing staff, being able to comprehend, raise issues, or participate in any discussion dealing with the handling and transportation of sick or wounded patients (Task 295).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 247 248 249 250 251 252 253 254.

CURRICULUM OBJECTIVE SHEET		I UEC + OF	_
Type of Objective Knowledge	Factor I		-
Skill or knowledge Category 11737300 .		Scale Value 2.5	_
Occupation Patient Care Aide		Level <u>1</u>	_
Refers to Task Code No(s): 166 190 282		·	
	,		_
			_
Is there Cross Reference?Yes(X)No() If	yes, see fo	otnote(s):	
			_
Content: A graduate of the program at this educa-	ational leve	l must be able to	_
demonstrate mastery of the following subject		•	

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Applying information on the transportation of sick or wounded patients to properly transport a patient in a wheelchair or on a stretcher as appropriate to the patient's age and condition (Tasks 166, 190, 282).
- 2. Applying information on handling sick or wounded patients to transfer patient to or from wheel chair, stretcher, bed, table, or other location as appropriate to the patient's condition, or assist with dressing and undressing (Tasks 190, 282).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.'

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 246. Same scale value appears in: 248 249.

Higher scale value appears in: 250 251 252 253 254.



	CURRICULUM OBJECTIVE SHEET	Page 1 of 1	
	Type of Objective Knowledge Fac	tor IV No. <u>248</u>	,
	Skill or Knowledge Category 11737300	Scale Value 2.5	_
	Occupation Patient Care Technician	. Level <u>2</u>	
	Refers to Task Code No(s).: 243		_
		,	
-			•
	Is there Cross Reference? Yes(X) No() - If yes,	see footnote(s).	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Handling and Transportation of the Sick Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In restraining a patient, being able to use information on the handling.
 of sick patients to assess the type of restraint needed and apply restraints appropriate to the patient's condition and behavior (Task 243).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special: terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above:

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 246.

Same scale value appears in: 247 249.

Higher scale value appears in: 250 251 252 253 254.



CURRICULUM OBJECTIVE SHEET	·		Page 1	of :
Type of Objective - Knowledge	Factor	III	No1. 249	
Skill or Knowledge Category 11737300	• •		Scale Value	2.5.
Occupation Radiologic Technologist		-	Level	3 .
Refers to Task Code No(s): 369.		, N		
		•	•	-,

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Handling and Transportation of the Sick or Wounded

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

.1. In preparing for bedside radiography and selecting appropriate equipment and materials, being able to use information on the patient's condition and on the handling of such patients to make appropriate selections of materials or to decide to ask for staff assistance with positioning (Task 369).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 246. | Same scale value appears in: 247 248.

Higher scale value appears in: 250 251 252 253 254.



	CURRICULUM OBJECTIVE SHEET	<u> </u>	· Page 1 of 1
	Type of Objective Knowledge	Factor IV	No. 250
	Skill or Knowledge Category 11737300	4	·Scale Value 3.5
-1	Occupation Patient Care Aide		Level 1
	Refers to Task Code, No(s): 193 199 283 490		• ,
			- -
	N		
•	Is there Cross Reference?Yes(X)No()	If yes, see footno	ote(s).
	<u> </u>		· ,
L	Content: A graduate of the program at this e	ducational level mu	ist be able to
ř	demonstrate mastery of the following sui	hiert area	

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying information about a patient's condition and about the handling and transportation of sick or wounded patients to appropriately arrange for escort or transportation of a patient to or from examination room, properly assist patient to or from wheelchair, stretcher, examination table, properly position patient in preparation for physician's examination or as needed, properly assist patient to dress or undress, or to immobilize or wrap a pediatric patient appropriately (Tasks 193, 199, 283, 490).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross' Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 246 247 248 249.

Same 'scale value appears in: 251' 252. High scale value appears in: 253 254.



CURRICULUM OBJECTIVE SHEET	-	, ,	<u> </u>			Page 1	<u>of</u>
Type of Objective Knowledge.	• • •	v	Factor	ΙV	No.	25.	
Skill or Knowledge Category 11737300	0			;	Scale	Value	3.5
Occupation Patient Care Technician	h		v ,		_	Level	2
Refers to Task Code No(s): 156		•					
<u></u>		,			-		
Is there Cross Reference?Yes(X)'	No() <u>If</u>	yes, see	footn	ote(s)	,	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Handling and Transportation of the Sick-or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying information about a patient's condition and about the handling of sick or wounded patients to assist, position, and handle patients properly while irrigating, cleaning, dressing or redressing wounds, burns, or openings for catheter without injuring patient or causing unnecessary pain (Task 156).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Eurriculum Objectives:

Lower scale value appears in: 246 247 248 249.

Same scale value appears in: 250 252. Higher scale value appears in: 253 254



CURRICULUM OBJECTIVE SHEET	•	Page 1 of 1
Type of Objective Knowledge	Factor [1]	I No. 252
Skill or Knowledge Category 1173 \$300		Scale Value 3.5
Occupation Radiologic Technologist		Level 3
Refers to Task Code No(s): 370 371 464	•	· · ·
,	•	•
	r :	
Is there Cross Reference? Yes(X) No()	If yes, see foo	tnote(s).
Content: A graduate of the program at this edu		must be able to

monstrate mastery of the following subject area

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking operative orthopedic radiographs, operative cholangiograms, pancreatograms, or in providing technical assistance for fluoroscopic examinations, being able to use infomation about the handling of sick or wounded patients to determine and indicate what techniques should be used to position patient and/or to assist in positioning patient as appropriate to patient's condition (Tasks 370, 371, 464):

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: .

Lower scale value appears in: 246 247 248 249.

Same scale value appears in: 250 251. Higher scale value appears in: 253 254.



CURRICULUM OBJECTIVE SHEET	5			Page 1	of <u>1</u>
Type of Objective Knowledge		Factor	IV No.	253	
Skill or Knowledge Category 11737300)	•	Scale	V alue	5.5
Occupation Patient Care Technician	الم الم	30		Level	2
Refers to Task Code No(s): 296		•		4	• • •
		•	1		
7					<u> </u>
Is there Cross Reference? Yes(v)	No() If	VAC CAA	foatnote(s)		

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an emergency, being able to select, after assessment of patient's condition; the proper ways to handle and/or transport patient so as to avoid further injury, aggravation of symptoms, or unnecessary pain to patient, and carry out emergency care procedures (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 246 247 248, 249 250 251 252.

Same scale value appears in: 254 and level 4.



CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Knowledge | Factor | III | No. | 254 |
Skill or Knowledge Category | 11737300 | Scale Value 5.5 |
Occupation | Radiologic Technologist | Level | 3 |
Refers to Task Code No(s): | 353 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 |
| 367 | 368 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 |
| 463 | 465 | 466 | 467 | 468 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | (*continued below) |
Is there Cross Reference? ... Yes (X) ... No() | If yes, see Footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Handling and Transportation of the Sick or Wounded

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1.' In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with the handling and transportation of sick or wounded patients during radiographic examinations (Task 353).
- 2. In taking radiographs, being able to use details about the proper way to handle and transport sick or wounded patients so as to properly assist or transfer patient to or from wheelchair, stretcher, examination table, lavatory, determine when to request assistance in moving patient, and to position and immobilize patient so as to avoid injury or unnecessary pain, based on the patient's age and condition (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 246 247 248 249 250 251 252. Same scale value appears in: 253 and level 4.

* 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.



 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Knowledge
 Factor
 III
 No.
 255
 Colspan="6">Calle Value 1.5

 Skill or Knowledge
 Category 11737400
 Scale Value 1.5

 Occupation
 Radiologic Technologist
 Level 3 /

 Refers to Task Code No(s)
 363 364 367 368 369 374 375 376 378 379 380 381 382

 383 384 385 386 387 388 389 390 463 464 465 466 467 468 495 497 498 499 500 501

 502 503 504 505 506 508 509 510 511 512 513 514 515 516 517 518 519 526

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Is there 'Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Sprains, Strains, Fractures and Their Healing

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In taking radiographs when the purpose is not directly connnected with sprains, Strains or fractures, being able to take account of the presence of accident injuries, unhealed or suspected fractures and apply details about sprains, strains, and fractures and their healing to know when to ask for assistance in positioning patient; being able to properly and safely move, position, immobilize patient and/or account for presence of casts and splints (all tasks listed except Task 369).
- 2. In preparing for bedside radiography and selecting appropriate equipment and materials, being able to make selection taking into account the presence of sprains, strains, or fractures; being able to judge when to arrange for staff to position patient for radiography (Task 369)

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale, value appears in: 256 257.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 256.
Skill or Knowledge Category 11737400

Cocupation Radiologic/Technologist

Refers to Task Code No(s). 353 355 356 357 358 359 360 361 362 365 366 370 377

491 492 493 494 496 507

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

*Sprains, Strains, Fractures and Their Healing

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with sprains, strains, fractures and their healing as it affects patient care during radiographic examinations (Task 353).
- 2. In taking "plain films" of the bones, vertebral column, or skull, or in taking operative orthogedic radiographs, arthrograms, diskograms, or peripheral angiograms, being able to use details about sprains, strains, fractures, and their healing to deal with patients with suspected fracture, unhealed fracture, sprains, or strains, such as determining when to make sure a physician is available to position patient, or being able to properly move, handle, position, and immobilize patient to avoid further injury or unnecessary pain; being able to take account of casts and splints in selecting technical factors; being able to select focal spot size to provide diagnostic information (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 255.

Same scale value appears in level 4.

Higher scale value appears in: 257.

CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Knowledge	Factor	. IV No257
Skill or Knowledge Category 11737400		Scale Value 3.5
Occupation Patient Care Technician	*	Level 21
Refers to Task Code No(s): 296		
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Is there Cross Reference? Yes (X)	.No() If yes; see	footnote(s).
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Content: A graduate of the program at	this educational l	evel must be able to

demonstrate mastery of the following subject area

Sprains, Strains, Fractures and Their Healing

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an emergency, being able to assess whether patient's symptoms indicate possible sprain, strain, or fracture, and decide how to position and care for patient to minimize damage or danger to patient (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Lower scale value appears in: 255 256.
Same scale value appears in level 4 of patient care.





CURRICULUM OBJECTIVE SHEET	<u> </u>		Page_1 of 1
Type of Objective Knowledge		Factor IV	No258
Skill or Knowledge Category 117376	000		Scale Value 7.0
Occupation Patient Care Technici	an (Level 2
Refers to Task Code No(s): 296			
· ·			1
			••
Is there Cross Reference?Yes(X)	No() I	f yes, see foot	tnote(s).
·			•
-Content: A graduate of the program			must be able to .
demonstrate mastery of the fol	lowing subje	eç t are a	•

Resuscitation

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing first aid in an emergency, being able to use information about resuscitation to determine whether patient requires resuscitive measures, select procedure appropriate to patient's condition, carry out resuscitation procedure and assess patient's response (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

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ype of Objective Knowledge,		``	^ Factor	IV	No	259
Skill or Knowledge Category 11737700			,		Scale V	alue 1.5
Occupation Patient Care Technician					. I	.evel 2
Refers to Task Code No(s) .:	522	•	,			\ -
	•					1
•	,		 ,		•	
						

Is there Cross Reference?...Yes(x) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performant of the following activities:

1. In applying pressure dressing to arterial or venous puncture site, being able to apply information about wounds and their healing to determine whether there is a problem such as hematoma, swelling (Task 522).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 260.

Higher scale value appears in: 261 262 263 264.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend; raise issues, or participate in any discussion dealing with wounds or operative incisions and their healing as it affects patient care during radiographic examinations (Task 353).
- 2. In taking radiographs or preparing for radiographic examinations, being able to use details about wounds or unhealed operative incisions when listed on requisition sheet to properly handle and position patient, apply immobilization devices safely, and arrange for dressing or redressing (all tasks except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 259.

Higher scale value appears in: 261 262 263 264.

* 500 501 502 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526:



CURRICULUM OBJECTIVE SH	EET							Page 1 of 1
Type of Objective Kr	nowledge .	,	,, , ,	Fact	tor	IN	No.	261
Skill or Knowledge Cate		7700	38.	٦,	, –		Scale	Value 2.5
Occupation Patient (Care Technic	ian	·	٠,	•	*·		Level, 2
Refers to Task Code No(s).: 296	•	•	-				
	,					-		
· · · · · · · · · · · · · · · · · · ·	•	J				•	٠,	
Is there Cross Reference	e?Yes(X)Nc	()	If yes,	see	footno	te(s).	,

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

l. In providing first aid in an emergency, being able to use information about wounds to evaluate the nature and condition of a patient's wound; select appropriate first aid measures and apply (Task 296).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 259 260. Same scale value appears in: 262.

Higher scale value appears Vin: 263 264.



CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Knowledge		1	Factor	III	No.	262
Skill or Knowledge Category	11737700)			Scale	Value 2.5
Occupation Radiologic Techno	logist	_			'	Level 3
Refers to Task Code No(s)::	503	,				•
	• 1	•		₩.		,

Is there Cross Reference? ... Yes('X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In taking radiographs of external fistulae or sinus tracts, being able to use details about the way such openings or wounds manifest in the patient in the area of interest so as to properly care for patient, position and immobilize patient safely, recognize emergency signs, and select technical factors (Task 503).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 259 260.

Same scale value appears in: 261 and level 4.

Higher scale value appears in: 363 364.



CURRICULUM OBJECTIVE SHEET	<u>, </u>	<u>.</u>		Page L of L
Type of Objective Knowledge	,	Factor	IV No.	263
Skill or Knowledge Category 11	737700 ,		Scal	e Value 3.5
Occupation Patient Care Techn	ician			Level 2
Refers to Task Code No(s) .: 156	,			•
	•	•		
,	• •		•	
Is there Cross Reference? Ye	s(X)No()	If yes, see	footnote(s)	•
Content: 'A graduate of the pro	_		vel must be	able to
demonstrate mastery of the	to How ing Sub	niect area		\$

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

 Applying information on how wounds or operative incisions heal or show infection to evaluate healing and report suspicious appearance in conmection with orders to irrigate, clean, or dress a wound or incision (Task 156).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 259 260 261 262. Higher scale value appears in: 264.



CURRICULUM OBJECTIVE SHEET	Page 1 of 1
Type of Objective Knowledge	Factor IV No. 264
Skill or Knowledge Category 11737700	Scale Value 5.5
Occupation Patient Care Technician	Level 2
Refers to Task Code No(s): 33	
	1
, ,	
Is there Cross Reference?Yes(X)N	o() If yes, see footnote(s).
Content: A graduate of the program at t	

Wounds and Their Healing (also includes operative incisions)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In removing patient's sutures, being able to apply information on how the suture wound appears during healing in order to judge whether to remove sutures or report problem (Task 33).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate rechnical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 259 260 261 262 263.

	COMMITTED TO CONTINUE SHEET					
_	Type of, Objective Knowledge	Factor	IV.	No.	265	
	Skill or Knowledge Category 11738000		i i	Scale	Value_	1.5
	Occupation Patient Care Aide	•			Level	1
	Refers to Task Code No(s): 193 290					
• '					·	
	Is there Cross Reference?Yes(X)No() If	yes, 'see	footn	ote(s).	-	•
				1.	,	
	Content: A graduate of the program at this educa-		evel m	ı≱t þeં⊹	able to)
	demonstrate mastery of the following subject	t area 🔴		Χ,	, "	• '
ı	·			-()	/	
Ì	Asepsis (concepts and techniques involved)	ed in the	achie	vement	o <u>f</u>	•

sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving).

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- Applying information about asepsis to swab with antiseptic solution an area to be incised or injected (Task 193).
- 2. Applying information about asepsis in handling items with sterile gloves so as to maintain sterile field or keep items or areas of the body free of contamination (Task 290).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 266 267

Higher scale value appears in: 268 269 270 271 272 273 274.



CORRICOLOM OBJECTIVE SHEET		F	<u>Page I of I</u>
Type of Objective Knowledge	1 A 1 V	Factor IV	No266
Skill or Knowledge Category		<u> </u>	"Șcăle Value 1.5
Occupation Patient Care Tec	hnfcian	• • • • ,	Level 2
Refers to Task Code No(s).:			3
· •		•	
"	,	•	_ ,,
ls there Cross Reference?	Yes(X)No()	If yes, see footno	rte(s).
Content: A graduate of the p			ist be able to

demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying information about asepsis to swab with antiseptic solution an area to be punctured, incised, or injected; handling items so as to maintain sterile condition (Task 18).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 265 267.

Higher scale value appears in: 268 269 270 271 272 273 274.



CURRICULUM OBJECTIVE SHEET		<u>Page I of I</u>
Type of Objective Knowledge	Factor VI	No. <u>267</u>
Skill or Knowledge Category 11738000	· .	Scale Value 1.5
Occupation Quality Assurance Aide	<u> </u>	Level 1
Refers to Task Code No(s): 180 260 304		••
		、.
		<u> </u>
Is there Cross Reference?Yes(X)No()	If yes, see footno	ote(s)
•		<u> </u>
Content: A graduate of the program at this ed	ucational level mu	ust be able to
· · · · · · · · · · · · · · · · · · ·		•

demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In preparing materials, for drawing blood, transporting blood samples, 1. preparing hypodermic syringes with injection dosages, applying information about asepsis to maintain sterile integrity of materials (Tasks 180, 260, 304).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 265 266.

Higher scale value appears in: 268 269 270 271 272 273 274.



CURRICULUM OBJECTIVE SHEET .			Page 1 of 1
Type of Objective Knowledge	Factor	IV No	. 268
skill or Knowledge Category 11738000	 ,	Sca	le Value 2.5
Occupation Patient Care Aide			Level 1
Refers to Task Code No(s): 153 283 295 521			
- 1 *		<i>*</i> -	
) · <u> </u>			
Is there Cross Reference?Yes(x)No()	If yes, see f	ootnote(s).
		•	
Content: A graduate of the program at this edu	icational lev	el must b	e able to

demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In using sterile materials to wipe away blood from sterile areas or equipment, change or reinforce dressings, or apply pressure to puncture site, being able to use details about sterile conditions and procedures to achieve or maintain sterile integrity of materials or areas of the body (Tasks 153, 283, 521).
- In participating in meeting of diagnostic x-ray department nursing staff, being able to comprehend, raise issues, or participate in any discussion dealing with asepsis as-it affects patient care (Task 295).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special. terms, facts, equipment, and/or procedures which are part of this discipline' and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 265 266 267. Same scale value appears in: 269 270 271.

Higher scale value appears in: 272 **/**73 274.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 269
Skill or Knowledge Category 11738000 Scale Value 2.5
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 33 522

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In removing sutures or applying pressure dressing to puncture site, being able to apply information about asepsis in order to irrigate or swab area with antiseptic solution, maintain the sterile integrity of materials (Tasks 33, 522).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical of special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 265 266 267.

Same scale value appears in: 268 270 271.

Higher scale value appears in: 272 273 274.

CURRICULUM OBJECTIVE SHEET

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COMMITTOR OPPOSITION	DIABBI	_•		•		Tage II OF I
Type of Objective	Knowledge	•		Factor	VI	No. <u>270</u> .
Skill oř Knowledge (Category <u>1173800</u>	0	:	·		Scale Value 2-5
Occupation Quality	Assurance Aide	• •	• • • •	·		Level 1
Refers to Task Code	No(s) : 79 80		ud.	•	•	

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Gontent: A grante of the program at this educational level must be able to demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autocraving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

Applying information about asepsis to determine when to use sterile technique in the preparation of barium sulfate contrast medium or prepare medications and materials for sterile procedure trays; being able to use details about sterile conditions and procedures to achieve or maintain aseptic conditions (Tasks 79, 80).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms; facts, equipment, and/or procedures which are part of this discipline are required for successful completion of the activities listed above.

Cross Reference Footnotes: . See The Following Curriculum Objectives:

Lower scale value appears in: 265 266 267. Same scale value appears in: 268 269 271. Higher scale value appears in: 272 273 274



 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Knowledge
 Factor III
 No.
 271

 Skill or Knowledge Category
 1138000
 Scale Value 2.5

 Occupation
 Radiologic Technologist
 Level 3

 Refers to Task Code No(s):
 355 356 357 358 359 360 361 362 363 364 365 366 367

 368 369 374 381 382 383 384
 383 384

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Asepsi (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surges, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of unpertanding adequate to the proper performance of the following activities

1. In preparing partient or materials for radiography, being able to apply information about asepsis, after obtaining information about patient's condition, to decide whether to arrange for or carry out isolation or decontamination techniques, arrange for proper cleanup of patient and/or equipment after the examination, arrange to have dressings reinforced or reapplied, so as to keep patient, equipment, and area free of contamination (all tasks listed).

To accomplish these activities the student must have detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 265 266 267. Same scale value appears in: 268 269 270. Higher scale value appears in: 272 273 274.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 272

Skill or Knowledge Category 11738000 Scale Varue 3.5

Occupation Patient Care Aide Level 1

Refers to Task Code No(s): 166 490 520

Is there Cross Reference? '... Yes (X) ... No () If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Applying information about asepsis in isolation and decontamination techniques to prepare examination or treatment room or area and clean up afterwards, or in mummying or wrapping infant when the patient has an infectious or communicable condition (Tasks 166, 490).
- 2. In preparing a patient and attaching electrodes for ECG monitoring during a surgical procedure, being able to use details about sterile conditions and cocedures to achieve or maintain the sterile integrity of materials, areas, and parts of the patient's body (Task 520).

To accomplish these activities the student must have a detailed knowledge of the subject gategory, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 265 266 267 268 269 270 271. Same scale value appears in: 273 274.

CURRICULUM OBJECTIVE SHEET	" Page 1 of 1
Type of Objective Knowledge Factor IV	No. 273
Skill or Knowledge Category .11738000 .,	Scale Value 3.5
Occupation Patient Care Technician	Level 2
Refers to Task Code No(s): 65 133 143 156 181 296 299 308	`
	*
Is there Cross Reference? Yes (X) No() If yes, see foot	note(s).
Content: A graduate of the program at this educational level	must be able to

demonstrate mastery of/the following subject area

Amepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In preparing extravascular body fluids, washings, cell or tissue biopsies for the laboratory, administering subcutaneous or intramuscular injections, catheterizing a male or female urethra, cleansing and dressing wounds, or administering first aid, being able to use details about sterile and isolation or decontamination procedures to achieve or maintain the sterile integrity of materials, areas, or parts of the body (Tasks 65, 133, 143, 156, 181, 296, 299).
- 2. In setting up and moniforing a patient's ECG during a surgical procedure, being able to use details about sterile condition and procedures to achieve or maintain the sterile integrity of materials, areas, and parts of the patient's body, (Task 308).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculus Objectives: Lower scale ue appears in: 265 266 267 268 269 270 271. Same scale value appears in: 272 274 and level $\overline{4}$. \P



CURRICULUM OBJECTIVE SHEET Page 1 of 1 Type of Objective Knowledge Factor III No. Skill or Knowledge Category Scale Value 3.5 11738000 Occupation, <u>Radiologic Technologist</u> Level Refers to Task Code No(s): 353 370 371 372 373 375 376 377 378 379 380 385 386 387 388 389 390 463 464 465. 466 467 468 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526 Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate managery of the following subject area

Asepsis (concepts and techniques involved in achievement of sterile condition; includes concurrent and terminal disinfection during surgery, aspects of sterilization of implements and equipment such as autoclaving)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with asepsis as it affects patient care during radiographic examinations (Task 353).
- 2. In carrying out radiography in operating room or where sterile surgical or introductory procedures are involved, being able to use details about sterile conditions and procedures to achieve or maintain the sterile integrity of materials, areas, and parts of the patient's body (all tasks as appropriate except Task 353).
- 3. In preparing patient or materials for radiography involving surgical or introductory procedures, being able to apply information about asepsis to decide whether to arrange for or carry out isolation or decontamination techniques, arrange for proper cleanup of patient and/or equipment after the examination, arrange to have dressings reinforced or reapplied so as to keep patient, equipment, and area free of contamination (all tasks as appropriate except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 265 266 267 268 269 270 271.

Higher scale value appears in: 272 273 and level 4.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge
Skill or Knowledge Category 12210000
Occupation Patient Care, Aide
Refers to, Task Code No(s): '520

Page 1 of 1

No. 275
Scale Value 1.5
Level 1

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at othis, educational level must be able to demonstrate mastery of the following subject area

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In preparing a patient for ECG monitoring in connection with a radio-graphic or fluoroscopic procedure, understanding the effects of ionizing (x-ray) radiation on human organisms sufficiently to conscientiously apply and conform to safety requirements for provision of appropriate shielding for the patient and self (Task 520).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same same value appears in: 276 277.

Higher scale value appears in: 278 279 280 281 282.



	Page 1 of
Factor IV	No276 1
	Scale Value 1.5
v	Level 2
	,
<u> </u>	*
If yes, see footi	note(s).
	Factor IV

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate nation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In setting up and monitoring a patient's ECG during a radiographic or fluoroscopic procedure, understanding the effects of ionizing (x-ray) radiation on human organisms sufficiently to conscientiously apply and conform to safety requirements for provision of appropriate shielding for patient and self (Task 308).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: #5 277.

Higher scale value appears in: 278 279 280 281 282.



 CURRICULUM OBJECTIVE SHEET
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 Type of Objective Knowledge
 Knowledge
 Factor
 VI
 No.
 277

 Skill or Knowledge Category
 12210000
 Scale Value
 1.5

 Occupation Quality Assurance Technician
 Level
 2

 Refers to Task Code No(s):
 173 175 178 187 523 524 525 536 538 553 554

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In carrying out radiographic tests of x-ray equipment, or checking and preparing x-ray equipment and supplies, understanding the effects of ionizing (x-ray) radiation on human organisms sufficiently to conscientiously apply and conform to test and safety standards; checking to make sure no person will be exposed during tests (Tasks 173; 175, 178, 187, 523, 524, 525, 536, 538).
- 2. In reading and recording x-ray exposure from personnel monitoring film or TLD dosimeters, being able to use details about the effects of ionizing (x-ray) radiation on human tissues and safety requirements to scientiously determine whether any readings appear unusually high, and decide when to bring this to the attention of the proper staff member (Task 553);

being (able to determine whether exposure is within acceptable limits for a period, incident, or lifetime equivalent based on standards; being able to decide which follow-up procedure is appropriate (Task 554).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 275 276.

Higher scale value appears in: `278 279 280 281 282.



CURRICULUM OBJECTIVE SHEET	•]	Page l of l
Type of Objective Knowledge	Factor	IV	No.	278
Skill or Knowledge Category 12210000			Scale	Value 2.5
Occupation Patient Care Technician , '	· k	,	_	Level 2
Refers to Task Code No(s).: 280				
			,	
				<u> </u>
. Is there Cross Reference?Yes(X)No()	If yes, see	footn	ote(s).	•

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In participating in monitoring of personal exposure to ionizing radiation, understanding the effects of all ionizing radiation on human tissues sufficiently to conscientiously conform to safety requirements such as wearing gonadal shielding or, during exposures, being behind protective barriers; being able to use details about the effects of exposure on human tissues to conscientiously note when accidental or excessive personal exposure may have occurred (Task 280).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 275 276 277. Same scale value appears in: 279 280.

Higher scale value appears in: 277 200.



CURRICULUM OBJECTIVE SHEET	·	Page 1 of 1
Type of Objective Knowledge	Factor VI	No. <u>279</u>
Skill or Knowledge Category 12210000 .		Scale Value 2.5
Occupation Quality Assurance Technician	•	Level 2
Refers to Task Code No(s).: 280 529 530 531 532	533 534 535 537	539 540 543
544 548 549 550 556	*	
•		
Is there Cross Reference? Yes (X No() If	yes, see footno	te(s).

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in monitoring of personal exposure to ionizing radiations understanding the effects of all ionizing radiation on human tissues sufficiently to conscientiously conform to safety requirements such as wearing gonadal shielding or making exposures behind protective barriers; being able to use details about the effects of exposure on human tissues to conscientiously note when accidental or excessive personal exposure may have occurred (Task 280).
- 2. In testing x-ray equipment, film processors and x-ray films for conformance to radiation protection standards, conducting radiation protection survey, or calibrating test instruments, understanding the effects of ionizing (x-ray) fadiation on human organisms sufficiently to conscientiously apply tests and evaluate conformity with safety requirements; being able to use details about the effects of ionizing (x-ray) radiation on human tissues to discuss results of tests, such as effect of problems and deviations from acceptable standards on patient exposure (each of the tasks listed except Task 280).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 275 276 277.

Same scale value ppears in: 278 280. Higher scale value appears in: 281 282.



CURRICULUM OBJECTIVE SHEET	Page 1 of 1
Type of Objective Knowledge Factor III	No. <u>280</u>
Skill or Knowledge Category 12210000 S	cale Value 2.5
Occupation Radiologic Technologist	Level 3
Refers to Task Code No(s): 280 369	
	* * · ·
To those Cross Poterran 22 Veg(v) No() If was not footnote	(0)

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in monitoring of personal exposure to ionizing radiation, understanding the effects of all ionizing radiation on human tissues sufficiently to conscientiously conform to safety requirements such as wearing gonadal shielding or making exposures behind protective barriers; being able to use details about the effects of exposure on human tissues to conscientiously note when accidental or excessive personal exposure may have occurred (Task 280).
- 2. In preparing mobile equipment for bedside radiography, being able to understand the effects of ionizing radiation on human tissues sufficiently to conscientiously select appropriate shielding to be used to protect patient based on sex, positions for examination, and area of interest, to provide for shielding of self and others who will remain in the room during exposure, and to make sure that person making exposure will be able to stand the minimal required distance from the x-ray beam or outside the room behind protective barrier during exposure (Task 369).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 275 276 277. Same scale value appears in: 278 279.

Higher scale value appears in: 281 282.



CURRICULUM OBJECTIVE SHEET		Page 1 of
Type of Objective Knowledge	Factor VI '	No. 281
Skill or Knowledge Category 12210000		Scale Value 3:5
Occupation Quality Assurance Technician		Level 2
Refers to Task Code No(s):: 545	•	
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		f*
Is there Cross Reference?, Yes(X)No()	If yes, see footno	te(s)
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> Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In monitoring patient exposure rates for routine diagnostic procedures, being able to use understanding of the effects of ionizing radiation on human organs and tissues, and use details about safety requirements to conscientiously carry out the monitoring tests and consider the tissues and organs involved in the various radiographic or fluoroscopic examinations;

being able to determine whether procedures being tested meet acceptable exposure standards for the area of the body involved;

being able to recommend gonadal shielding appropriate for particular examinations and positions, consider the effect of collimation, and discuss and explain the effects of any problem or deviations from accept-, able standards on patient exposure and safety (Task 545):

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 275 276 277 278 279 280. Same scale value appears in: 282.

Higher scale value appears in level 5.



CURRICULUM OBJECTIVE SHEET

Page 1 of 2

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Radiobiology (effects of high energy radiation on living organisms; includes effects of ionizing electromagnetic, ultraviolet, sonic, and particulate radiation, biological safety requirements and protection)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In providing technical quality feview of "plain film" radiographs, being able to use understanding of the effects of ionizing radiation on human organs and tissues and use details of biological safety requirements and protection procedures to conscientiously review whether a needlessly large are of patient's body has been exposed, whether there is visual evidence of proper field size collimation, and appropriate shielding; on ordering "retakes," restricting orders to those only for medical reasons, such as for missing areas or views or those needed to complete diagnostic information; being able to explain to technologist reasons for decision (Task 81).
- 2. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with radiobiology as it relates to patient and staff safety in connection with radiographic examinations (Task 353).
- 3. In taking radiographs or participating in radiographic or fluoroscopic examinations, being able to use understanding of the effects of ionizing radiation on human organs, tissues, and genes, and use details of biological safety requirements and protection procedures to conscientiously select appropriate shielding for patient based on area of interest, patient's age, sex, and views ordered, especially gonadal shielding;

being able to apply shielding to radiosensitive tissues that will be in the primary path of the beam but not part of area of interest;

being able to check that exposure factors are for minimum exposure needed to obtain diagnostic information;

being able to check records and/or interview female patient about possible pregnancy to be sure that there is no danger of exposing a fetus, to check that examination is not a duplication of one taken in the recent past, or bring to attention of radiologist an unusually high history of radiation exposure;

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 2

Type of Objective (Skill or Knowledge Cagegory _

Knowledge -12210000 Radiobiology

No. Scale Value

Content Continued

being able to provide protection by giving everyone who will remain in room during exposure protective shielding; explaining/purpose of shielding, taking precaution to protect and shield against accidental exposure to radiation such as with horizontally directed x-ray tube or unusual tube travel or angulation;

Factor III

being able to minimize exposure by collimating to the area of interest; making sure that any requests for retakes are for medical reasons; being careful to carry out procedures so as to avoid need for retakes;

being able, with fluoroscopy, to check fluoroscopic equipment before procedure, make sure that no one is in examination room except patient, Qr make sure that staff is shielded before making exposure; providing shielding for radiologist such as screen, Leaded gloves, and apron; Informing radiologist of cumulative exposure periodically during fluoroscopy;

being able to record patient's examination including number of retakes and any information on radiation dosage when information is available (all. tasks listed except Tasks 81 and 353 as appropriate).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this descipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 275 276 277 278 279 280. Same scale value appears in: 281.

Higher scale value appears in level 5.

** 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 4 515 516 517 518 519 526.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor VI No. 283

Skill or Knowledge Category 12223000

Scale Value 1.5

Occupation Quality Assurance Aide

Refers to Task Code No(s): 8 275

Is there Gross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be table to demonstrate mastery of the following subject area.

Diagnostic Radia paphy (application of electromagnetic ionizing radiation such as the systomachiere interpretable images for diagnostic purposes, also includes alworoscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Using details of diagnostic responsible in operating controls to turn off x-ray control unit and high voltage when shutting down computatived transverse axial tomography equipment (Task 8).
- In preparing first and second order subtraction prints, using details of diagnostic radiography to deal with radiographic images on processed radiographs and utilize specialized equipment (Task 275).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms affects, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Sar Cale Value appears in: 284.
His Scale value appears in: 285 286 287 288 289 290 291 292 293 294.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor VI No. 284

Skill or Knowledge Category 12223000

Occupation Quality Assurance Technician

Refers to Task Code No(s): 523 524

Page 1 of 1

No. 284

Scale Value 1.5

Level 2

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content A graduate of the program at this educational level must be able to demanstrate mastery of the following subject area.

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x4rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Using details of diagnostic radiography to carry out warm-up procedures for computerized transverse axial tomography duipment, and set mA and kV as appropriate (Task 523), or to check that x-ray unit is off before carrying out preventive maintenance and cleaning or equipment (Task 524).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and r procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 283.

Higher scale value appears in: 283 286 287 288 289 290 291 292 293:294:



CURRICULUM OBJECTIVE SHEET				Page I c)I I
Type of Objective Knowledge	**	Factor	IV	No. <u>285</u>	
Skill or Knowledge Category *122230	00 .	•	•	Scale Value 2	.5
Occupation <u>Patient Care Aide</u>		2	_	Level _	1 '
Refers to Task Code No(s): 73 74	· , · · · ·	Y	• 3 .		
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Is there Cross Reference? Yes(X)	No()	If yes, see	footnot	e(s). ··'	
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Content: A graduate of the program	at this e	ducational	evel mus	t be able to	
demonstrate mastery of the fol	lowing su	bject ar e a '		•	•
				•	
, <u>Ďiagnostic'Radiográphy</u> (ap	plication	of electrom	agn eti c :	ionizing	
radiation such as x-rays t					
diagnostic purposes; also	includes,	otoscopy,	use of	related	

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Using details of diagnostic radiography and general awareness of diagnostic procedures and equipment in order to reassure patient or accompanying family member about the procedures, explain what will happen, explain the equipment or the nature of the examination (Tasks 73, 74).

.To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 283.284.

Same scale value appears in: 286 287 288 289.

Higher scale value appears in: 290 291 292 293 294

techniques, contrast media, proced

of images)



CURRICULUM OBJECTIVE SHEET Factor IV Type of Objective Knowledge 286 No. Skill or Knowledge Category 12223000 - Occupation Patient Care Technician Scale Value 2.5 Level 2 Refers to Task Code No(s).: 65 Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s). Content: A graduate of the program at this educational level must be able to

demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper, performance of the following activities:

Using details of diagnostic radiography procedures in order to determine from an x-ray requisition sheet the specimens to be taken during procedure that will require preparation for the laboratory (Task 65).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale walue appears in: 283 284.

Same scale value appears in: 285 287 288 289.

Higher scale value appears in: 290 291 292 293 294.

	CURRICULUM OBJECTIVE SHEET.			ige l of l
	Type of Objective Knowledge	Factor VI	No.	· 287 -
	Skill or Knowledge Category 12223000	, ,	s' Scale	Value 2.5
	Occupation Quality Assurance Aide	+		Level 1
	Refers to Task Gode No(s): 147	•. ,	_	.
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	Is there Cross Reference? Yes (X) No() If yes, see too	tnote(s).	•
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	Content: A graduate of the program at this	educational leve	l(must be a	able tQ ,
^	demonstrate mastery of the following s	subject area		

Diagnostic Radiography (application of electromagnetic jonizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

Using details of diagnostic radiography in order to prepare or change technique charts for specific x-ray and/or fluoroscopic equipment as ordered; indicating the needed conversion of technical factors to compensate for deteriorating output on a chart which accounts for thickness. of part, grid ratio, focal-film distance, focal spot size, type and speed of film, use of image intensifying screen; being able to check. new factors on tube rating chart (Task 147).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 283 284. Same scale value appears in: 28, 286 288 289. Higher scale value appears in: 290 291 292 293 294.



CURRICULUM OBJECTIVE SHEET					Page 1 o	<u>)I · Z</u>
Type of Objective Knowledge		•	Factor	VI	No. <u>288</u>	
Skill or Knowledge Category 12	2223000		•	,	Scale Value_	2.5
Occupation Quality Assurance T					Level	2
Refers to Task Code No(s): 78 1	178 187 525	52 7 5 <u>3</u>	36 -			
•		· ·				
						<u> </u>

Is there Cross Reference? ...Yes(X)...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Using details of diagnostic radiography to deal with radiographic images so as to match processed radiographs with requisition cheets and obtain missing information (Task 78).
- 2. Using details of diagnostic radiography to check and prepare fluoroscopic controls; being able to check and adjust line voltage, tube height or focal-film distance; being able to set kVp, mA and/or density controls, use, check or adjust automatic or conventional timer, collimator, TV monitor controls, remote controls, brightness controls; being able to check functioning of roll film or cassette spot film device; being able to judge whether equipment is functioning properly (Task 178).
- 3. Using details of diagnostic radiography to check cassettes for proper film-screen contact; being able to use x-ray machine, x-ray film, cas-
- settes, test materials, select focal-film distance, set collimation, technical factors, exposure control, and use tube rating chart; being able to judge proper film-screen contact (Task 187).
- 4. Using details of diagnostic radiography to check calibration and accuracy of computerized transverse axial tomography equipment and retrieve, display, and copy scans; being able to check line voltage, use various components, select mA and kVp; being able to use concept of density to adjust and/or evaluate scan display (Tasks 525, 527).
- 5. Using details of diagnostic radiography to visually and/or manually inspect a diagnostic radiography system; being able to check movable parts, position locks, beam limiting devices, illuminators, beam angle and position indicators; being able to recognize various types of equipment and operate each as appropriate for check (Task 536).



CURRICULUM OBJECTIVE SHEET (continued)Page 2 of 2Type of ObjectiveKnowledgeFactor VINo. 288Skill or KnowledgeCagegory 12223000Diagnostic RadiographyScale Value 2.5

Content Continued

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 283,284.

Same scale value appears in: 285,286,287,280.

Higher scale value appears in: 290,291,292,293,294.



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CURRICULUM OBJECTIVE SHEET	·	Page 1 of 1
Type of Objective Knowledge	Factor III	No
Skill or Knowledge Catégory: 12223000	<u> </u>	Scale Value 2.5
Occupation Radiologic Technologist		Level 3
Refers to Task Code No(s).: 369	,	
		
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Is there Cross Reference? $Yes(X)$ $No()$	if yes, see footh	note(s).
*Content: A graduate of the program at this e	ducational level m	nust be able to
demonstrate mastery of the following sub		
•	.	•
Diagnostic Radiography (application	of electromagneti	c ionizing .
radiation such as x-rays to achieve		
diagnostic purposes; also includes		
techniques, contrast media, procedu	res, positioning,	interpretation
of images)		
	· \ '	
at a level of awareness and depth of und	derstanding adequa	re to the proper
performance of the following activities	•	te to the proper
performance of the following activities	•	•
	• , . •	•
l. Using details of diagnostic, radiogra		
mobile portable radiography equipmen	nt used for bedsid	e radiography;
	•	•
being able to select proper equipmen	nt based on examin	ation ordered, the

being able to select size, speed, and type of x-ray film, grid, and cassette combinations, prepare identification markers;

exposure technique required, and proper focal spot size for magnification;

being able to clean and assemble equipment, select immobilization devices, cassettes and cassette tunnels, localizer devices, cassette stands, and

being able to select and set technical factors and check equipment functioning, set distances from target to patien (TOD) and target to film (TFD);

being able to set up equipment safely in designated location (Tapk 369).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 283 284.

Same scale value appears in: 285 286 287 288.

Higher scale value appears in: 290 291 292 293 294.

shielding;



CURRICULUM OBJECTIVE SHEET

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Type of Objective Knowledge Factor VI No. 290
Skill or Knowledge Category 12223000 Scale Value 3.5
Occupation Quality Assurance Technician Level 2
Refers to Task Code No(s): 173 175 529 530 531,532 533 534 535 537 538 539 540
543 544 548 549 550 553 556

Is there Cross Reference? ... Yes(X) No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Using an understanding of diagnostic radiography and appropriate details about diagnostic x-ray equipment, technical factors, controls, test materials, collimators, and the interpretation of radiographic images to carry out tests of x-ray equipment by setting x-ray tube at appropriate test heights, using light system, collimators, setting technical factors, preparing test films, using test objects, making test exposures, interpreting test images (Task 73, 175, 529, 530, 531, 533, 535, 537, 539, 540, 543, 544).
- 2. Using an understanding of diagnostic radiography and appropriate details about a variety of diagnostic x-ray equipment, film processors, x-ray film, and special test equipment (such as test top, penetrometer, beam attenuators, test bar as star patterns, pin hole diaphragm, pulse counter, chronometer, oscilloscie, radiation detection device, phantoms, survey meter, kVp, mA, mAs measuring instruments, graph paper, penetrometer test cassettes, ionization chamber, electrometer, filters, sensitometer, radioactive source, TLD packets) to carry out tests of x-ray equipment such as:

accuracy check of x-ray machine timers using spinning top test (Task 173);

penetrometer test of kVp of mA calibration (Task 175);

check of x-ray field limitation, x-ray receptor and light field alignment, minimum TOD, TFD, and field size-indicators (Task 529);

check of fluoroscopic and spot film x-ray field limitation, x-ray field and image receptor alignment, maximum TID, minimum TOD (Task 530);

check of x-ray tube overload protection and effective focal spot size .(Task 531);

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 3

Type of Objective Knowledge Factor VI Skill or Knowledge Cagegory 12223000 Diagnostic Radiography

No. 290 Scale Value 3.5

Content Continued

direct calibration tests of exposure timers (Task 532);

check of automatic exposure termination device (Task 533);

visual, radiographic, or fluoroscopic inspection of personnel shielding devices (Task 534);

direct measurement or radiographic check of kWp, mA, mAs calibration, exposure rates, reproducibility (Task 535);

check of operation of tomography equipment, fulcrum position, resolution, exposure uniformity, grid alignment (Task 537);

check of the total filtration of the primary beam (HVL) (Task 538);

check of bucky-grid alignment and centering (Task 539);

check of fluoroscopic automatic brightness control system, the focus, resolution and distortion of the optical system including cine, spot film, and video devices (Task 540);

check of film processors (Task 543);

determination of exposure characteristics of x-ray and dosimetric films (Task 544);

check of fluoroscopic equipment maximum entrance exposure rate, primary barrier transmitted radiation rate (Task 548);

check of leakage radiation rate from source assembly (Task 549);

survey of stray radiation within diagnostic x-ray installation and transmission across primary and secondary protective barriers (Task 550).

- 3. Being able to use an understanding of diagnostic radiography and appropriate details about equipment functions and test standards to interpret test results by comparing with test standards: being able to select appropriate course of action such as request repair, shut down equipment (Tasks 173, 175, 529, 530, 531, 532, 533, 534, 535, 537, 538, 539, 540, 543; 14, 548, 549, 550).
- 4. In mg an understanding of diagnostic radiography and appropriate details about exposure and calibration of radiation detection to make calibration exposures of dosimetric film or thermoluminescent dosimeters using densitioneter or TL reader, carry out procedures to read and record exposure from radiation detection badge inserts (Task 553).

CURRICULUM OBJECTIVE SHEET (continued)

Page 3 of 3

Type of Objective Knowledge Factor VI No. 290
Skill or Knowledge Cagegory 12223000 Diagnostic Radiography Scale Value 3.5

Content Continued

5. Using details about diagnostic radiography and test procedures to carry out calibration of exposure detection instruments such as ionization chamber integrating radiation meter, radiation rate meter, survey meter (Task 556).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 283 284 285 286 287 288 289.

Same scale value appears in: 291.

Higher scale value appears in: 292 293 294.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III No. 291
Skill or Knowledge Category 12223000 Scale Value 3.5
Occupation Radiologic Technologist Level 3
Refers to Task Code No(s): 372 373 464

Is there Cross Reference? ... Yes(X)?...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Using an understanding of diagnostic radiography and appropriate details about diagnostic x-ray equipment, technical factors, controls, collimators, light systems, focal-film and focal-patient distances, tube angulation, centering, and patient positioning to achieve desired views in taking intravisceral or isolated operating room radiographs or operating room radiographs for opaque foreign body search;

being able to select and prepare film for use in holder, prepare and use identification and right-left markers, set up mobile equipment, position and angle x-ray tube, adjust focal film distance, adjust collimation to area of interest, select and set technical factors, make exposure, monitor equipment during exposure, readjust technical factors or positioning based on physician's orders (Tasks 372, 373).

- 2. Using an understanding of diagnostic radiography and appropriate details about fluoroscopic equipment, spot filming and use of contrast media to provide technical assistance for fluoroscopic examination of patients and spot filming; being able to prepare spot film equipment for use (cassette or roll film), select cassettes, use right and left markers, position image intensifier, select exposure factors, check equipment functioning, check remote control and TV monitor, adjust focal-image intensifier distance, check focal-table distance, collimate, operate tilt table and fluoroscopic controls as ordered, load and unload cassettes in bucky (Task 464).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 283 284 285 286 287 288 289.

Same scale value appears in: 290.

Lower scale value appears in: 292 293 294

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CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective			F	actor	VI	No. 292	_
Skill or Knowledge	Category_	12223000				Scale Value 5.5	_
Occupation Qualit	y Assuran	e Technician	•	-	•		_
Refers to Task Code	e No(s).:	545				• _	•
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Is there Cross Ref	erence?	.Yes(X)No() If ye	s, sec	foot	tnote(s).	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

 Applying an understanding of diagnostic radiography and using appropriate details to monitor patient exposure rates for routine diagnostic procedures;

being able to take account of the type of diagnostic x-ray unit, the specific patient positions and views ordered, the mode (such as radiographic, fluoroscopic, with serial film changer, spot filming, tomography, cine, computerized transverse axial tomography);

being able to account for use of image intensifiers, automatic brightness controls, use of grid, bucky, image intensifying screens, size, type, and speed of x-ray film, effect of collimation, target to film distance, target to skin distance, target to image distances; accounting for standard technical factors, patient thickness, and standard distances;

being able to follow test procedures as appropriate, use a phantom and exposure detection device, set equipment to simulate examination, operate equipment, and determine whether the procedures being tested meet acceptable exposure standards;

being able to consider means of dose reduction, determine whether there is a problem with equipment (Task 545).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 283 284 285 286 287 288 289 290 291. Same scale value appears in: 293.

Higher scale value appears in: 294 and level 5.7



CURRICULUM OBJECTIVE SHEET

Page 1 of 3

Type of Objective Knowledge Category 12223000 Diagnostic Radiography Scale Value 5.5

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s).: 355 356 357 358 359 360 361 362 363 364 365 366 367

368 370 371 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

463 465 466 467 468 491 492 493 494 495 496 497 498 499 500 (*continued below)

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques. contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying an understanding of diagnostic radiography to determine the type of radiographic image required for the examination listed on x-ray requisition sheet;

being able to make radiographs by applying appropriate details about the operation of diagnostic x-ray equipment to use units such as overhead x-ray tube, stereoscopic x-ray machine, xeroradiography machine and accessories (Task 368), automatic serial film changers, biplane units, tomography machines, rotating neuroradiology units (such as PEG chairs), computerized transverse axial tomography equipment and components; being able to check, set up, or assist with units such as fluoroscope machines, cineradiography devices, videotape, spot film devices, remote control and TV monitoring devices (tasks as appropriate).

2. Applying an understanding of diagnostic radiography to obtain the requested views of the area of interest and condition being investigated by means of correct focus-object-film alignment; being able to position patient, center, rotate and align area of interest; being able to adjust height and center x-ray film in holders or cassettes on table, in bucky, in cassette, tunnel, in vertical holder; being able to adjust height, angle, and center x-ray tube using distance and angle indicators, light system, collimators;

being able to select alternative positions for the same view to accomodate special problems with patient's mobility;

being able to prepare and use identification, R-L and series markers, set up for multiple views on one film;

being able to immobilize patient to prevent motion, instruct patient in proper breath control, or time exposure to proper phase of respiration;

CURRICULUM OBJECTIVE SHEET (continued)

2 of 3

Type of Objective Knowledge Factor III No. 293
Skill or Knowledge Cagegory 12223000 Diagnostic Radiography & Scale Value 5.5

Content Continued.

being able to collimate to area of interest using light system, apply stielding, make exposure, and monitor equipment to detect any equipment problem;

being able to use auxiliary extension cone to reduce the primary beam;

being able to select size of film, cassette, or film holder, type and speed of film as appropriate for the examination;

being able to use triangles, protractors, angles, rulers to measure or obtain correct angulation, rotation, use calipers to measure thickness of the body part;

being able to use special localizer devices, cassette tunnels;

being able to make stereoscopic radiographs by proper ships of tube angulation and centering;

being able to use occlusal or periapical file

being able to make right-angle projections using biplame equipment or two units;

being able to use pelvimeter equipment (Task 468);

being able to use special equipment and techniques to immobilize infants;

being able to position patient in traction (tasks as appropriate).

Applying an understanding of diagnostic radiography to select technical exposure factors for radiographic examinations or fluoroscopy using technique and tube rating charts;

being able to take account of thickness of the body part, whether fatty or muscular, patient's age collimated field size, use of accessories such as grid, bucky, intensifying screens, the type and speed of film, focal-film distance, presence of pathological condition, cast, preference of radiologist, posted changes in output, or conversions needed for use of magnification technique; being able to apply conversion factors; being able to check exposure factors against posted limits of x-ray tube;

being alle to convert technique to equivalent output using higher up and lower mas or as appropriate;

being able to carry out magnification technique and check for correct focal spot size;

being able to add additional filtration to the primary beam when appropriate by inserting or dialing additional filter;

Page 3 of 3

Type of Objective Knowledge Page Page 111 No. 293
Skill or Knowledge Cagegory 1222300 Diagnostic Radiog phy Scale Value 5.5

Content Confinued

- being able to modify technical factors or positioning to take account of request for retakes or additional views (pasks as appropriate).
- 4. Applying an understanding of diagnostic radiography contrast media to administer contrast orally for radiographs of heart, anterior portion of neck, upper gastrointestinal tract, or to check condition of contrast media for chemical deterioration;
 - being ble to coordinate with injection or instillation of contrast medium by radiologist and time exposures as appropriate, operate tilt table or fluoroscopic controls as ordered;

being able to set up or check automatic pressure injector used to inject contrast medium;

being able to use computer-operate control panel and keypunch cards for angiography (tasks as appropriate).

- 5. Being able to use tomographic attachment or special tomography equipment for linear, circular, elliptical, or hypocycloidal tomography, zonography, plesiotomography (Tasks 374, 385, 505, 508); in tomographic examination, being able to carry out steps to localize the plane of interest if so or dered (Task 374);
- 6. Being able to operate tating PEG chairs or similar equipment for pneumoencephalography, brain ventriculography (Task 505);
- 7. Being able to use computerized transverse axial tomography equipment to obtain correct scan levels and angles and use viewing controls to obtain best density, contrast, color, or other characteristics to provide disposition information (Task 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 282 284, 285 286 287 288 289 290 291.

Same scale value appears in: 292 4

Higher scale value appears in: 294.

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CURRICULUM OBJECTIVE SHEET		Page 1 01 Z
Type of Objective Knowledge	Factor III . N	io. <u>294</u>
Skill or Knowledge Category 12223000) Sc	cale Value 7.0
Occupation Radiologic Technologist		Level <u>3</u>
Refers to Task Code No(s): 81 353	<u>.</u>	
	3 7	
•		<u> </u>
'Is there €ross Reference?Yes(X)	.No() If yes, see footnote	(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Diagnostic Radiography (application of electromagnetic ionizing radiation such as x-rays to achieve interpretable images for diagnostic purposes; also includes fluoroscopy, use of related techniques, contrast media, procedures, positioning, interpretation of images)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In providing technical quality review of "plain film" radiographs, applying an understanding of diagnostic radiography to determine the type of radiographic images required for the examination listed on x-ray requisition sheet and evaluate whether standards for diagnostic quality have been met; being able to evaluate whether any views are omitted, or suggest alternative patient or x-ray tube positioning to obtain views for which conventional positioning is contraindicated;

being able to determine whether correct view and full area of interest is demonstrated, whether needlessly large area has been exposed, whether there is adequate detail, definition, whether there is blurring, distortion, whether density and contrast are acceptable, whether there are artifacts, whether proper shielding has been used (Task 81).

- 2. Applying an understanding of diagnostic radiography in technical quality review of "plain films" to assess what factors may have contributed to unacceptable radiographs and take appropriate action; being able to evaluate whether improper positioning, centering, immobilization of patient, inappropriate technical factors, failure to adjust to special circumstances; improper part-film distance, focal-film distance, or problems with x-ray machine or film processor are responsible; being able to explain what is wrong or way to remedy to appropriate staff person (Task 81)
- 3. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with diagnostic radiography equipment or examinations (Task 353).

CURRICULUM OBJECTIVE SHEET (continued)

Type of Objective Knowledge | Factor III | No. 294

Skill or Knowledge Cagegory 12223000 Diagnostic Radiography | Scale Value 7.0

Content Continued

To acomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 283 284 285 286 287 288 289 290 291 292 293.
Same scale value appears in levels 4 and 5.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 295

Skill or Knowledge Category 12300000 Scale Value 1.5

Occupation Patient Care Technician Level 2

Refers to Task Code No(s).: 133 198 298 299

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Pharmacology (the study of drugs, i.e., chemical compounds or non-infectious biological substances which may be administered as an aid in the diagnosis, treatment or prevention of disease, for the relief of pain or suffering, or to control or improve any physiological or pathological condition)

at a level of awareness and depth of understanding adequate to the proper , performance of the following activities:

1. Applying details about the general use of drugs in the preparation and administration of medication subcutaneously, intramuscularly, or orally (Tasks 133, 198, 298, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 296:

* CURRICULUM OBJECTIVE -SHEET Page 1 of 1 No. Type of Objective Factor VI. Knowledge Scale Malue 1.5 SM111 or Knowledge Category • 12300000 Level Occupation Quality Assurance Aide Refers to Task Code No(s) .: 260 304 If 'yes, see footnote(s). Is there Cross Reference? ... Yes(X) ... No() Content: A graduate of the program at this educational level must be able to

demonstrate mastery of the following subject area

Pharmacology (the study of drugs, i.e., chemical compounds or noninfectious biological substances which may be administered as an aid in the diagnostic, treatment, or prevention of disease, for the relief of pain or suffering, or to control or improve any physiological or pathological condition)

at a level of wareness and depth of understanding adequate to the proper a performance of the following activities:

Applying general details about drugs in the preparation of solutions or hypodermic injections (Tasks 260, 304).

To accomplish these activities the student dist have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objective Same scale value appears in: 195.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor III Now 297

Skill or Knowledge Category 12331000 Scale Value 1.5

Occupation Radiologic Technologist Level 3

Refers to Task Code No(s): 375 376 377 378 380 384 385 387 388 389

Is there Cross Reference? . . Yes(X) . . . No() If yes, see footnote(s)

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drug Toxicity (includes antidotal therapy; the adverse effects of drugs due to the nature of the drug)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In preparing patient for iodine based contrast study, applying information about drug toxicity to explain to patient what side effects may be felt from contrast medium, such as feeling of nausea, flushing, choking sensation Trasks 375, 376, 377, 378, 380, 385, 387, 388, 389).
- In checking on patient's preparations for oral cholecystography and cholangiography, applying information about drug toxicity to question patient or accompanying adult about any reaction to contrast medium that has been administered earlier (such as vomiting or diarrhea) and to determine whether reaction is unusual or severe (Task 384).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 298.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 298

Skill or Knowledge Category 12331000

Occupation Patient Care Technician Level 2

Refers to Task Code No(s):: 133 198 298 299

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

.Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drug Toxicity (includes antidotal therapy; the adverse effects of drugs due to the nature of the drug)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In administering medication subcutaneously, intramuscularly, or orally, applying information about drug toxicity to explain possible side effects to patient and to evaluate after drug is administered whether patient is experiencing a negative side effect (Tasks 133, 198, 298, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 297.

Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET		٠.				Page 1 of 1
Type of Objective Knowle	dge		Factor	III	No.	299
Skill or Knowledge Category		•	•		Scale	Value 1.5
Occupation <u>Radiologic Tech</u>	nologist		•		<u> </u>	Level 3
Refers to Task Code No(s) .: .		378 38 0	384 385	387 388	389	
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	7.			,		
Is there Cross Reference?	.Yes(X) No	() If	yes, see	footnot	te(s).	
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Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drug Idiosyncrasy and Allergy Pharmacogenetics (includes increased sensitivity to drugs, decreased responsiveness to drugs, novel drug effects, etc., which are due to inherited physical characteristics and/or idiosyncratic reactions of individuals)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In preparing patient for iodine based contrast study, applying information about drug allergy to question patient or accompanying adult about allergy to shellfish or past adverse reactions to contrast medium, especially iodine based; observing patient for signs of allergic reaction such as severe flushing, salivation, choking, vomiting, pallor, fainting, or shock (Tasks 375, 376, 377, 378, 380, 385, 387, 388, 389).
- 2. Questioning patient about possible allergic reaction to contrast medium; determining whether there is unusual or severe allergic reaction (Task 384).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above. .

Cross Reference Footnotes: See The Following Curriculum Objectives Higher scale Value appears in: 300.

CURRICULUM OBJECTIVE SHEET	• <u> </u>	Page 1 of 1
Type of Objective	Factor IV	No. 300
Skill or Knowledge Category 12332000		Scale Value 2.5
Occupation Patient Care Technician	`	√ Level 2
Refers to Task Code No(s): 33 133 198 298 299		
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Is there Cross Reference? 'Yes(X)No()	If yes a se e footno	ote(s).
Content: A graduate of the program at this edu	cational level m	ust be able to ,
demonstrate mastery of the following subjections	oct area	

Drug Idiosyncrasy and Allergy Pharmacogenetics (includes increased sensitivity to drugs, decreased responsiveness to drugs, novel drug

sensitivity to drugs, decreased responsiveness to drugs, novel drug effects, etc., which are due to inherited physical characteristics and/or idiosyncratic reactions of individuals)

at a level of awareness and depth of understanding dequate to the proper performance of the following activities:

1. In administering medication subcutaneously, intramuscularly, or orally, applying information about allergic reactions to drugs to consider the possibility of an allergic reaction to medication, to question patient about past allergies, to explain possible allergic reaction, and to evaluate after the drug is administered whether patient is experiencing an allergic reaction (Tasks 33, 133, 198, 298, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 299.

Same scale value appears in level 4 of patient care.



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	bjective K		۰	Factor	IV		
Skill or	Knowledge Cat	egory 12	394000			Scale Valu	2.5
	n Patient Ca			-		Leve	F 2
Refers to	Task Code No	(s).:. 133	3 299	•		1	
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Is there	Cross Referen	ice?Yes	s(X)No() If yes, see	footno	te(s).	
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Content:	A graduate c	of the prog	gram at this	educational le	ever mu	st be abre	LO

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drug Tolerance and Physical Dependence (includes homeostatic adjustment. cumulative effects, tolerance at the site of drug action)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

.1. In administering medication subcutaneously or intramuscularly, applying information about drug tolerance to consider whether the medication or dosage prescribed may be inappropriate or in error; being able to carry out proper procedures to record administration of narcotic if appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:

Same scale value appears in level 4 of patient care.



CURRICULUM OBJECTIVE SHEET				Page 1 of 1
Type of Objective Knowle	dge '	Factor	IV No.	302
Skill or Knowledge Category	12335000		Scale	Value 2.5
Occupation Patient Care Te	chnician	<u>*</u> <u>*</u>		_ Level <u>2_</u>
Refers to Task Code No(s) .:	133 198 298 299			· · · · · · · · · · · · · · · · · · ·
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		,	,	`
Is there Cross Reference?	.Yes(X)No()	If yes, see f	ootnote(s)	
	<u> </u>	<u> </u>		
Content: A graduate of the	program at this	educational lev	el must be	able to

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drug Synergism (effects of the presence of two or more drugs in the body and the change in drug action this causes due to their interaction)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering medication subcutaneously, intramuscularly, or orally, applying information about drug synérgism to question patient, review information, and consider whether patient's use of other drugs suggests contraindication to administration of prescribed drug, or to explain possible synergistic side effects to patient (Tasks 133, 198, 298, 299)

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 4 of patient care.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 303
Skill or Knowledge Category 12336000 Scale Value 2.5
Occupation Patient Care Technician Level 2.
Refers to Task Code No(s):: 133 299

Is there Cross Reference? ... Yes(x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Chemical Teratogenesis (special effects of drugs on the fetus during pregnancy)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering medication subcutaneously or intramuscularly, applying information about chemical teratogenesis to consider whether current or possible pregnancy is a contraindication to the use of the drug prescribed (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote: Same scale value appears in Jevel 4 of patient care.

CURRICULUM OBJECTIVE SHEET	• <u> </u>		Page_l of_l
Type of Objective Knowledge	٠٠ . ١٨٠,٠	. Factor 'IV'	No304
Skill or Knowledge Category	12341100		Scale Value 2.5
Occupation Patient Care Thehnicia	n		Level 2
Refers to Task Code No(s).: 198 298		,	
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Is there Cross Reference?Yes(X)	No() I	f yes, see foot;	note(s)'.
<pre>content: A graduate of the program demonstrate mastery of the fol</pre>			must be able to

Antibacterial and Antifungal Chemotherapy (includes antiseptics and germicides, sulfonamides, penicillins, erythromycin, tetracyclines and broad spectrum antibiotics, streptomycin, sulfones, antifungal agents)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering antibacterial or antifungal medication orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Higher scale value appears in: 305.

RRICULUM OBJECTIVE SHEET

· Page 1 of

ype of Objective Knowledge Factor ΙV No. Skill or Knowledge Categor 12341160 Occupation Patient Care Technician Scale Value 3. Level Refers to Task Code No(s) .: 33 133 299 Is there Cross Reference? ...Yes(X) ...:No() If yes, see footnote(s).

A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area,

> Antibacterial and Antifungal Chemotherapy (includes antiseptics and germicides, sulfonamides, penicillies, crythromycin, tetracyclines and broad spectrum antibiotics, streptomycin, sulfones, antifungal agents)

at a level of awareness, and depth of understanding adequate to the proper performance of the following activities:

In administering antibacterial or antifungal medication after removing sutures, or in injecting subcutaneously or intramuscularly, being about to explain the name, purpose of the medication, sow it is to be administered, 'possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 33, 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special . terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 304. Lower scale value appears in: 304. Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET		<u> </u>	`	Page 1 of 1
Type of Objective Knowle	dge	Factor IV	No.	306
Skill or Knowledge Category			Scale	Value 2.5
Occupation Patient Care Tec	Hnician ,	-		Level: 2
Refers to Task Code No(s) .:		No	1	` .
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• .		7.	` _	
Is there Cross Reference?	Yes(X) No()	If yes, see fo	otnote(s).	
Antent: A graduate of the			l must be	able to
demonstrate mastery of	the following sul	ojec t area		

Cancer and Virus Chemotherapy (includes alkylating agents, antimetabolites, steroids and enzymes, interferon induction)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1: In administering medication to treat a cancer or virus orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher seals value appears in: 307.

CURRICULUM OBJECTIVE SHEET

* Page 1 of 1

Type of Objective Knowledge Factor IV No. 307
Skill or Knowledge Category 12341300 Scale Value 3.5
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 133 299

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Cancer and Virus Chemotherapy (includes alkylating agents, antimetabolites, steroids and enzymes, interferen induction)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering medication to treat a cancer or virus subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 306.
Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 308

Skill or Knowledge Category 12342100 Scale Value 1.5

Occupation Patient Care Technician Fefers to Task Code No(s).: 296

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A, graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Cardiovascular System and Smooth Muscle (includes cardiac glycosides, quinidine and anti-arrhythmia agents, coronary vasodilators, diuretics, agents inhibiting the renal tubules, fluids (such as blood, substitutes, electrolytes), agents in atherosclerosis, hypotensive agents, smooth muscle relaxants, smooth muscle stimulants)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In the course of administering first aid, being able to judge when to administer an intra-cardiac stimulant and the proper dosage (Task 296)

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 309 310.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective - Knowled	ge`	· -		Factor	IV	No.	309
Skill or Knowledge Category	1234,2100		•		•	Scare	Value 2.5
Occupation Patient Care Tec		-)	·´ ı·				Level 2
Refers to Task Code No(s) .:	198 298	1		*	. ,		
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Is there Cross Reference? ... Yes(X) ... No() If yes see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Cardiovascular System and Smooth Muscle (includes cardiac glycosides, quinidine and anti-arrhythmia agents, coronary vasodilators, diuretics, agents inhibiting the renal tubules, fluids (such as blood, substitutes, electrolytes) agents in atherosclerosis, hypotensive agents, smooth muscle relaxants, smooth muscle stimulants)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In administering a drug acting on the cardiovascular system or smooth muscles orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion to the activities listed above.

Cross Reference Footnotes: Sec The Following Gurriculum Objectives:

Lower scale value appears in: 308. Higher scale value appears in: 310

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge
Skill or Knowledge Category 123/2100
Scale Value 3.5
Occupation Patient Care Technician
Refers to Task Code No(s): 133/299

Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Cardiovascular System and Smooth Muscle (includes cardiac glycosides, quinidine and anti-arrhythmia agents, coronary vasodilators, diuretics, agents inhibiting

the renal tubules, fluids (such as blood, substitutes, electrolytes), agents in atherosclerosis, hypotensive agents, smooth muscle relaxants, smooth muscle stimulants)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In administering a drug acting on the cardiovascular system or smooth muscles subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks, 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Crass Reference Manuales as See The Following Curriculum Objectives: Lower scale value appears in: 308 309. Same scale value appears in level'4 of patient care. CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Knowledge Factor IV No. 311 Skill or Knowledge Category 12342200 Scale Value 2.5
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 198 298

Is there Cross Reference? ... Yes(X) :: .No(') If yes, see footnote(s).

<u>Content</u>: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Blood (includes agents in anemia, anticoagulants and coagulants)

rat a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug acting on the blood-orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives Higher scale value appears in: 312.

CURRICULUM OBJECTIVE SHEET			•	Päge 1 of 1
*Type of Objective Knowledge	٠	Factor	IV V No	312
Skill or Knowledge Category 1234	2200		Sca	le Value 3.5
Occupation Patient Care Technici	an		*	Level2
Refers to Task Code No(s): 133 2			. (
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	•			
Is there Cross Reference? Yes (X	()No()	If yes, see	potnote(s	5).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Blood (includes agents in anemia, anticoagulants and coagulants)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug acting on the blood subcutaneously or intra'muscularly', being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).'

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Lower scale value appears in: 311.
Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 313

Skill or Knowledge Category 12342300 Scale Value 2.5

Occupation Patient Care Technician Level 2.

Refers to Task Code No(s): 198 298

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Hormones and Drugs Acting on Endocrine Glands and Accessory Reproductive Organs (includes adrenal cortical hormones and corticotropin, thyroid and thyrotropic hormones, sex hormones and gonadotropins, anterior pituitary, agents in diabetes mellitus, parathyroid hormone and calcium metabolism)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a hormone or a drug acting on the endocrine glands or accessory reproductive organs orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 314.

CURRICULUM OBJECTIVE SHEET.

Type of Objective Knowledge Factor IV No. 314

Skill or Knowledge Category 12342300: Scale Value 3.5

Occupation Patient Care Technician Level 2

Refers to Task Code No(s): 133 299

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Hormones and Drugs Acting on Endocrine Glands and Accessory Reproductive Organs (includes adrenal cortical hormones and corticotropin, thyroid and thyrotropic hormones, sex hormones and gonadatropins, anterior pituitary, agents in diabetes mellitus, parathyroid hormone and calcium metabolism)

at a level of awareness and depth of understanding adequate to the proper; performance of the following activities:

1. In administering a hormone or a drug acting on the endocrine glands or accessory reproductive organs subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side, effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 313.

Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. 315

Skill or Knowledge Category 12342600 Scale Value 2.5

Occupation Patient Care Technician Level 2

Refers to Task Code No(s): 198 298

Tis there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

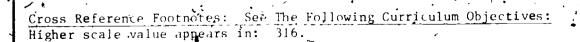
Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs for Allergy, Cough, Vomiting and the Dermatomucosal Surfaces (includes anti-immune drugs, antitussives, anti-emetics, dermatomucosal agents)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to treat allergy, cough, vomiting, or a dermatomucosal agent orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.



Type of Objective Knowledge Factor IV No. 316
Skill or Knowledge Category 12342600 Scale Value 3.5
Occupation Patient Care Technician Level 2
Refers to Task Code No(s): 133/299

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs for Allergy Cough, Vomiting and the Dermatomucosal Surfaces (includes anti-immune drugs, antitussives, anti-emetics, dermatomucosal agents)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to treat allergy, cough, vomiting, or a dermatomucosal agent subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 1999).

To accomplish these activities the student must have a detailed knowledge of the sedject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 315. Same scale value appears in level 4 of partient care.

CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type Objective Knowledge	Factor IV	No317.
Skill or Knowledge Category 12342700		Scale Value 2.5
Occupation Patient Care Technician		Level 2
Refers to Task Code No(s): 198 298		• • • • • • • • • • • • • • • • • • • •
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	/-	,
Is there Cross Reference? Yes(X) No(·) If	yes, see footno	te(s).
		, , , , , , , , , , , , , , , , , , ,
Content: A graduate of the program at this educate	tional leve≱ mu	ist be able to.
demonstrate mastery of the following subject	t area	•
•		

Drugs Acting on the Gastrointestinal Tract (includes drugs effective in ulcer therapy, cathartics and laxatives, digestants and drugs useful in gallbladder disease)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the gastrointestinal tract orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 318.

CURRICULUM OBJECTIVE SHEET Page 1 of 1

Type of Objective Knowledge Factor IV No. 318

Skill or Knowledge Category 12342700 Scale Value 3.5

Occupation Patient Care Technician Level 2

Refers to Task Code No(s): 133 299

Is there Cross Reference? ...Yes(X) ...No(*) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Gastrointestinal Tract (includes drugs effective in ulcer therapy, cathartics and laxatives, di-

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

gestants and drugs useful in gallbladder disease)

In administering a drug to act on the gastrointestinal tract subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 317.

Same scale value appears in level 4 of patient care.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV No. Shill or Knowledge Factor IV

Scale Value 3.5

Skill or Knowledge Category 12342810 Occupation Patient Care Technician

Level 2

Refers to Task Code No(s).: 133 299

Is there Cross Reference? ... Yes(X) ... No() of yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Autonomic Nervous System (includes sympathetic stimulants, sympathetic depressants, parasympathetic stimulants, parasympathetic depressants, ganglionic agents)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the autonomic nervetus system subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 319.

Same scale value appears in level 4 of partient care.

OURALCOLON OBSECTIVE SHEET		_ rage 1 of 1
Type of Objective Knowledge	Factor IV	No320
Skill or Knowledge Category 12342810		Scale Value 3.5
Occupation Patient Care Technician .		Level 2
Refers to Task Code No(s): 133 299		
	· • · · ·	٠, -
Is there Cross Reference? Yes(X) No() of yes, see footno	te(s).
Content: A graduate of the program at this demonstrate mastery of the following		st be able to

Drugs Acting on the Autonomic Nervous System (includes sympathetic stimulants, sympathetic depressants, parasympathetic stimulants, parasympathetic depressants, ganglionic agents)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the autonomic nervous system subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 319.

Same scale value appears in level 4 of partient care.



CURRICULUM OBJECTIVE SHEET		• Page 1 of 1
Type of Objective Knowledg	e Facto	r IV No. 321
Skill or Knowledge Category	12342820 ·	, Scale Value 2.5
Occupation Patient Care Tec	hnicián	Level 2
Refers to Task Code No(s) .:	198 298	
•	•	
•		•
Is there Cross Reference?	.Yes(X)No() If yes, s	ee footnote(s).
	program at this educational the following subject area	level must be able to .
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Drugs Acting on the	Neuromuscular System (incl	udes myoneural

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the neuromuscular system orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 322.



CURRICULUM OBJECTIVE SHEET

Page Lof 1

Type of Objective Knowledge	Factor	IV No.	322
Skill or Knowledge Category \ 12342820	*	Scale	Value 3.5
Occupation Patient Care Technician			Level 2
Refers to Task Code No(s): 133 299			
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Is there Cross Reference? Yes (X) No() If	yes, see	footnote(s).	. ,

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject, area

Drugs Acting on the Neuromuscular System (includes myoneural agents, muscle relaxants)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

In administering a drug to act on the neuromuscular system subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 321.

Same scale value appears in level 4 of patient care.

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective Knowledge
 Knowledge
 Factor III No. 323

 Skill or Knowledge Category 12342830
 Scale Value 1.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 353 355 356 357 358 359 360 361 362 363 364 365 366 367 374 375 376 377 378 379 380 386 388 389 390 465 467 491 492 493 494 495 496 499 380 360 500 500 501 502 403 504 505 506 507 508 509 510 511 512 513 514 (*continued below)

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Is there Cross.Reference? ...Yes(X) ...No() If yes, see footnote(s).

Drugs Acting on the Central Nervous System (includes narcotic analgesics, non-narcotic analgesics, sedatives and hypnotics, anticonvulsants, tranquilizers, drug addiction, alcohol, psychomimetic agents, drugs affecting the mind)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with sedatives or other drugs acting on the central nervous system as it affects patient care in radiographic examinations (Task 353).
- 2. In preparing for a radiographic examination, being able to recognize when a patient's record calls for prior sedation or any other drug acting on the central nervous system and checking or allowing for a proper elapse of time for the medication to take effect; being able to take account of effects of sedation on the patient's behavior and state of awareness (all tasks listed except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Higher scale value appears in: 324 325.

* 515 516 -517 518 519 526.

CURRICULUM OBJECTIVE SHEET 'S		} .	Page '1 of 1
Type of Objective Knowledge	Factor	IV No	324
Skill or Knowledge Category 12342830			le Value 2.5
Occupation Patient Care Technician	. 1 -	•	Level 2
Refers to Task Code No(s): 198 298 .	* ***		
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		•	
Is there Cross Reference?Yes(X)No	If yes, see	footnote(s	s). •
Content: A graduate of the program at the	nis educational le	evel must b	e able to

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Drugs Acting on the Central Nervous System (includes narcotic analgesics, nen-narcotic analgesics, sedatives and hypnotics, anticonvulsants, tranquilizers, drug addiction, alcohol, psychomimetic agents, drugs affecting the mind)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a sedative or other medication to act on the central nervous system orally, being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

'To accomplish these activities the student must have a detailed knowledge , of the subject category, covering the appropriate technical or special terms facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 323.

Higher scale value appears in: 325.

CURRICULUM OBJECTIVE SHEET	.	: ئ	· · _ ·		Page 1 of	1
Type of Objective Knowled	ge	· -	Factor	IV N	o. <u> </u>	_
Skill or Knowledge Category	- 12342830			Sc	ale Value 3:5	<u>. </u>
Accupation VPatient Care Te	chnician '				Level 2	
Refers to Task Code No(s) .:	133 299				·	
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	, <u> </u>	1	-=			_
Is there Cross Reference?	Yes(X)!	No() If	yes, see	footnote(s).,	

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Drugs Acting on the Central Nervous System (includes narcotic analgesics, non-narcotic analgesics, sedatives and hypnotics, anticonvulsants, tranquilizers, drug addiction, alcohol, psychomimetic agents, drugs affecting the mind)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the central nervous system subcutaneously or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject caregory, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Lower scale value appears in: 323 324.

Same scale value appears in level 4 of patient care.



CURRICULUM OBJECTIVE SHEET				1	Page 1	of 1.
Type of Objective Knowledge	,	Factor	FV ,		326	
Skill or Knowledge Category 12342900	• \	(.		Scale	Value	2.5
Occupation Pattent Care Technician		,			Leveí	
Refers to Task Code No(s): 198 298						· ,
			, 	•••		
			•		•	
Is there Cross Reference? Yes(X) N	o() If y	es, see	footnot	e(s).		•,
Content: A graduate of the program at t					able to	

Drugs Acting on the Immunologic System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In administering a drug to act on the immunologic system orally; being able to explain the name and purpose of medication, possible side effects; being able to explain to adult how to help administer to pediatric patient (Tasks 198, 298).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Foothetes: See The Following Curriculum Objectives: Higher scale value appears in: 327.

CURRICULUM OBJECTIVE SHEET .	\	Page 1 of L
Type of Objective Knowledge	Factor IV	* No. * <u>327</u>
Skill or Knowledge Category 12342900		Scale Value 3.5
Occupation Patient Care Technician		Level ·2'
Refers to Task Code No(s) : .133 299		
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		· · · · · · · · · · · · · · · · · · ·
Is there Cross Reference? Yes(X) No(·)	If yes, see footno	ote(s).
	<u>.</u>	

Drugs Acting on the Immunologic System

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

or intramuscularly, being able to explain the name and purpose of the medication, possible side effects, contraindications; being able to consider whether dosage is appropriate (Tasks 133, 299).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Lower scale value appears in: 326.

Same scale, value appears in level 4 of patient care.



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Type of Objective		**	· F	actor _	VI "	No. ₄	328	
Skill or Knowledge	Category -15	212100	1	<u> </u>		Scale	Value_1	5
Occupation <u>Qu</u>	ality Assuranc	e Technicia	n		* •	<u>`</u>	Level _	2 .
Refers to Task Cod	e No(s): _532	535 536 54	<u>3 556 -</u>		• •	41 44		
·								
				<u>′•. </u>	<u> </u>			<u></u> -
Is there Cross Ref	erence?Yes	(X)No() If ye	es, see	footno	te(s).		1-

Electric Circuit Theory (includes Ohm's law, Kirchhoff's laws, impedance, inductance, resistance, amperage, voltage, potentionetry, bridges, alternating and direct current; wave-guides, transmission)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- In performing direct calibration tests of diagnostic radiography exposure timers, being able to apply information about electric circuits to select the appropriate test based on the type of rectification and phase system involved, and take proper precautions with regard to shock hazards (Task 532).
 - 2. In performing tests of kVp, mA, mAs calibration using direct measuring instruments, being able to apply information about electric circuits to use proper safety precautions with regard to shock hazard, and set up kVp measuring system by removing high voltage cables from x-ray tube and inserting into voltmeter, connecting to measure the voltage between the x-ray tube electrode and ground, or total voltage across tube;

being able to set up for kVp waveform test so that voltage dividers provide inputs to oscilloscope;

being able to take proper precautions against shock hazard and insert and mA meter across filament circuit to directly measure filament current; being able to attach an mAs meter or a digital voltmeter to read mAs by placing in the neutral or ground lead from the x-ray transformer, in the secondary circuit near ground potential, or in series with the anode conductor to the x-ray tube; or connect a high-potential insulated milliampere meter directly to the high voltage circuit;

being able to connect an ionization chamber to an electrometer to measure exposure and place in a standard position (Task 535).

In inspecting a diagnostic radiography system, applying information about electric circuits to examine condition of high voltage cables such as tight retaining rings at termination points, infact insulation and shielding, and safe draping of cables; being able to inspect grounding, condition of power cords and exposed wires for signs of fraying, breaks, or wear; being able to recognize electrical hazards (Task 536).

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 2

Type of Objective Knowledge . Eactor VI No. 328
Skill or Knowledge Cagegory 15212100 Electric Gircuit Theory Scale Value 1.5

Content Continued .

- 4. In monitoring and evaluating film processors, applying information about electric circuits to determine whether test results indicate malfunction of electrical components in the processor (Task 543).
- 5. In calibrating electrical measuring instruments, applying information about electric circuits to follow manufacturers' specifications and carry out tests properly (Task 556).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

CURRICULUM OBJECTIVE SHEET	Page 1 of 1
Type of Objective Knowledge Factor IV No.	· 329
Skill or Knowledge Category 15222500 Scale	e Value 1.5
Occupation Patient Care Technician	Level 2
Refers to Task Code No(1) 1:280	,
	**
Is there Cross Reference? Yes(X) No() If yes, see, footnote(s)	
	<u> </u>

Interaction With Radiation (includes inversion spectraabsorption of microwave radiation)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In participating in monitoring of personal exposure to radiation, understanding details about the properties and behavior of electromagnetic ionizing radiation such as x-rays, gamma rays in interaction with living tissue (transfer of energy from the radiation to molecules of the cells) and with other forms of matter to be able to take account of scattering, the qualities of radiolucent and radiopaque materials, absorption and density qualities of matter to understand the reason for monitoring, how to deal with the detection device, and to be able to determine when accidental excessive personal exposure may have occurred (Task 280).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 330 331.

CURRICULUM OBJECTIVE SHEET

Page 1 of 2

 Type of Objective
 Knowledge
 Knowledge
 Factor
 VI
 No.
 330

 Skill or Knowledge Category
 15222500
 Scale Value
 1.5

 Occupation
 Quality Assurance Technician
 Level
 2

 Refers to Task Code No(s).:
 173 175 178 187 280 529 530 531 532 533 534 535 537

 538 539 540 543 544 545 548 549 550 556
 ...

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Interaction With Radiation (includes inversion speabsorption of microwave radiation)

at a level of awareness and depth of understanding adequate to the proper. performance of the following activities:

- 1. Taking account of details of x-radiation properties such as scattering, the qualities of radiolicent and radiopaque paterials, absorption and density properties of matter to carry out tests of x-ray equipment involving exposure of test films, masking of areas of test films, and attention to personal safety (Tasks 173, 175, 178, 187, 529, 530, 531, 533, 534, 535, 537, 538, 539, 540, 544, 545).
- 2. In participating in monitoring of personal exposure to radiation, understanding details about the properties and behavior of electromagnetic
 ionizing radiation such as x-rays, gamma rays in interaction with living
 tissue (transfer of energy from the radiation to molecules of the cells)
 and with other forms of matter to be able to take account of scattering,
 the qualities of radiolucent and radiopaque materials, absorption and
 density qualities of matter to understand the reason for monitoring, how
 to deal with the detection device, and to be able to determine when excessive personal exposure may have occurred (Task 280).
- 3. Applying details about the properties and behavior of electromagnetic ionizing radiation such as x-rays in interaction with living tissue (transfer of energy from the radiation to molecules of the cells) and with other forms of matter (such as attenuating material to reduce the experience rate of a beam of radiation) to be able to use test equipment such as radiation devices appropriately; to understand and explain the effects of deviations from acceptable safety standards for x-ray equipment on patient exposure and the quality of the radiographic image (Tasks 529, 530, 531; 532, 533, 534, 535, 537, 538, 539, 540, 545, 548, 549, 550).
- 4, Applying details about the properties and behavior of gamma rays in interaction with living tissue and other matter to safely handle a gamma ray source in producing a standard test film exposure or calibrating test instruments (Tasks 543, 556).

CURRICULUM	DBJECTIVE SHEET	(continued)

òf Page 2

Type of Objective Knowledge Factor VI No. Skill or Knowledge Cagegory 15222500 Scale Value 1.5

Content Continued

Applying details about x-radiation properties such as scattering, stray radiation, absorption and density to carry out radiation protection survey correctly, determine the safest positions for personnel who must remain in room during exposure, and consider means of reducing personnel or patient exposure (Task 550).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 329 331.

Higher scale value appears in level 5.



CURRICULUM OBJECTIVE SHEET Page 1 of 2 Type of Objective Knowledge Factor : No. Skill or Knowledge Category Scale Value 1.5 15222500 Occupation Level Radiologic Technician / Refers to Task Code No(s): 280 353 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 491 492 493 494 (*continued below) Is there Cross Reference? ...Yes(X) ...No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Interaction With Radiation (includes inversion spectraabsorption of microwave radiation)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in monitoring of personal exposure to radiation, understanding details about the properties and behavior of electromagnetic ionizing radiation such as x-rays, gamma rays in interaction with living tissue (transfer of energy from the radiation to molecules of the cells) and with other forms of matter to be able to take account of scattering, the qualities of radiolucent and radiopaque materials, absorption and density qualities of matter to understand the reason for monitoring, how to deal with the detection device, and to be able to determine when accidental excessive personal exposure may have occurred (Task 280).
- 2. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with the interaction of ionizing radiation with living tissue and other matter as it affects patient care and the conduct of radiographic examinations (Tasks 353).
- 3. Understanding and applying details about the properties and behavior of electromagnetic ionizing x-radiation in interaction with living tissues including scattering, the attenuating properties of materials, and the effects of technical exposure factors, distance, and field size to provide diagnostic quality radiographs most safely or give proper assistance during diagnostic examinations involving x-rays; being able to understand the reason for and provide minimum exposure compatible with diagnostic quality images when selecting or converting exposure factors; being able to understand the reason for and provide collimation to the area of interest, appropriate shielding to patients and personnel (all tasks listed except Tasks 280 and 353).
- 4. Understanding and applying details about the attenuation properties of materials in interaction with x-radiation, the qualities of radiolucent and radiopaque materials, absorption, and density to appropriately select technical factors for radiographic examinations according to the nature

CURRICULUM OBJECTIVE SHEET (continued)

Page 2 of 2

Type of Objective Knowledge Factor III "No. 331
Skill or Knowledge Cagegory 5222500 Interaction With Radiation Scale Value 1.5

* Content Continued

of tissue (such as fatty or dense), whether contrast media is being used; being able to judge when objects or substances on the patient's body must be removed or taken account of in the selection of technical factors or in positioning (tasks listed as appropriate except Tasks 280 and 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: .329 330 and level 4.

Wigher scale value appears in level 5.

* 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 526.

	CURRICULUM OBJECTIVE SHEET		4	Page 1 of 1
	Type of Objective Knowledge	Factor '	VI No.	332
ļ	Skill or Knowledge Category 24110000	, , ,	Scale	e Value 1.5
ł	Occupation 'Quality. Assurance Technician		•	Level 2
	Refers to Task Code No(s).: 535.	• ##	• •	
	•	•		
l				,
	Is there Cross Reference?Yes(X)No() If yes, see	footnote(s)	
	Content: A graduate of the program at thi demonstrate mastery of the following		vel must be	able to
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Electromagnetic Field Theory Applications (includes electromagnetic devices and energy conversion)

'at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying details of electromagnetic field theory to directly measure the output of diagnostic x-ray units using proper instruments, taking precautions with regard to shock hazards; being able to check and evaluate kVp waveform (Task 535).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 5.

CURRICULUM: OBJECTIVE SHEET		••		Page I of I
Type of Objective Know	ledge	Factor	VI	No. 1 333
\$kill or Mowledge Category	24132100	 · -	•	Scale Value 1.5
Occupation Quality Assu		_ &	``	Level 2
Refers to Task Code No(s) .:		549 550 556		
	• •			
1				
Is there Cross Reference? .	Yes(X)No()	If yes, see	footn	note(s).

Electronic Devices

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Applying details about the and characteristics of electronic devices to perform direct calibration tests of diagnostic radiography, exposure timers using a hulse counter, chronometer, or oscilloscope as appropriate to type of rectification and phase system involved (Task 532).
- 2. Being able to perform direct measurements of output of diagnostic radiography equipment using survey meters, kvp, mA, mAs measuring instruments, oscilloscope, electrometer as appropriate to the equipment and test involved (Task 535).
- 3. Being able to use electronic devices as appropriate to monator patient radiation exposure rates, entrance exposure rates, primary barrier transmitted radiation rates, leakage radiation from the source assembly, stray radiation, primary and secondary barrier transmitted radiation rates (Tasks 545, 548, 549, 550).
- 4.. Being able to use appropriate instruments to calibrate diagnostic x-ray test, survey, or electrical measuring instruments (Task 556).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote: 'Higher scale value appears in level 5.

CURRICULUM OBJECTIVE SHEET .	. 1.	* -		<u>-</u>]	Page l of
Type of Objective Knowledge		. 🖳 .	Factor	VI	No.	. 334
Skill or Know Redge Category	.33000000	•	·		Scale	Value 1.5°
Occupation Quality Assurance	ce Aide	, +				Level 1
Refers to Task Code No(s).:	8			•	٠,	,
• •						
			• 1		•	•
Is there Cross Reference?	.Yes(X)	.No() ∃f	yes, see	footno	te(s).	,
	1		•			

*Computer Technology.

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying details about computer operation to shut down computerized transverse axial tomography equipment involving computer components; being able to unload disc and/or tape unit, turn off appropriate switches, and comprehend language related to computer components if reading operator's manual (Task 8).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 335 336.

CURRIGULUM OBJECTIVE SHEET			Rage 14 of 1_
Type of Objective - Knowledg	e , `	Factor VI	No. <u>335</u>
Skill or Knowledge Category	33000000		Scale Value 1.5
Occupation Quality Assurance		·	Level 2
Refers to Task Code No(s).:	523 5 25 527 · ·	, —	
<u> </u>			,
Is there Cross Reference?	.Yes(X)No(^)	If yes, see footno	te(s).

Computer Technology

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- Applying details about computer operation to turn on control units of computerized transverse axial tomography equipment, comprehend language related to computer components if reading operator's manual (Task 523).
- 2. Applying details about computer operation to check calibration and accuracy of computerized transverse axial tomography equipment, or retrieve, display, and copy scans; being able to set controls, work with teletype or other data terminal controlling computer, use line printer, load system programs using disc or tape; being able to select, call, and use appropriate programs, enter information into memory, rewind tape, evaluate if computer is functioning, respond to problem, and comprehend terms in operator's manual (Tasks 525, 527).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives
Same scale value appears in: 334 336.
Higher scale value appears in level 5.



ACURRICULUM OBJECTIVE SHEET \	<u> </u>			•	1 4	Page 1 (of 1
Type of Objective Knowledge		•	Factor	·III	No.	336	
Skill or Knowledge Category: 330000	000	٠. ,			Scale	Value	1.5
Occupation Radiologic Technologist			7 ,	. •		Level	*3.
Refers to Task Code No(s): 526		<u>-</u>	· · · ·	• ,		-	
	1 -	-	•				
	1	-			-		•
Te there Cross Reference? Venty	No.(\ T	f was soi	faatna	+0(0)	· · ·	

Computer Technology

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

l. Applying details about computer operation to take computerized transverse axial tomography scans; being able to set controls, work with teletype or other data terminal controlling computer, use line printer, load
system programs using disc or tape; being able to enter appropriate control codes, select, call and use appropriate programs, enter information
into memory, initiate or interrupt scanning, call scan data for visual
display, obtain print-outs, rewind; and comprehend terms in operator's
manual (Task 526).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in 334 335 and level 4.

Higher scale value appears in level 5.

CURRICULUM OBJECTIVE SHEET

Page 1 of

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area.

Death and Dying Behavioral Development

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. In participating in meeting of diagnostic x-ray départment technologists, being able to comprehend, raise issues, or participate in any discussion dealing with the behavioral and emotional problems of patients who are or may be terminally ill as it affects patient care during radiographic examinations (Task 353).
- 2. In taking radiographs or providing technical assistance during fluoroscopic examinations or angiography involving patients who are or may be terminally ill, being able to apply information about the behavior and emotional state of such patients in order to reassure, assist them during the procedure, treat them with sympathy, dignity, and understanding; being able to recognize negative, withdrawn, frightened, or irrational behavior as part of the process so as not to take this personally; being able to treat the patient with dignity and concern regardless of the patient's behavior (Tasks listed as appropriate except Task 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnote:
Same scale value appears in level 4.

CURRICULUM OBJECTIVE SHEET

Page 1 of 1

Type of Objective Knowl	edge	Factor	ΙV	No.	338
Skill or Knowledge Category_		\	,	Scale	Value 1,5
Occupation "Quality Assur		· ·	•		Level 2
Refers to Task Code No(s) .:	173 529 530 531 535 .	1			
	7	7		••	

Is there Cross Reference? ... Yes(X) ... No(,) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

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at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- Applying details of algebra to carry out tests of diagnostic x-ray equipment, prepare test data for evaluation; being able to make extrapolations using ratio equations (Tasks 173, 530, 531);
 - being able to use the formula for magnification to solve for dimensions such as target-object distance or the size of the exposure field at the level of the image receptor (Tasks 529, 530);

being able to use simple formulas to solve for unknown quantities (Task 535);

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 339 and level 5.



 CURRIGHLUM OBJECTIVE SHEET
 Page 1 of

 Type of Objective Knowledge Knowledge
 Factor III No. 339

 Skill or Knowledge Category 51200000 1
 Scale Value 1.5

 Occupation Radiologic Technologist
 Level 3

 Refers to Task Code No(s): 355 356 357.358 359 360 361 362 365 375 491 492 493

 494 495 496 511,518
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Is there Cross Reference? ... Yes () ... No () If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Algebra

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. In setting up for magnification technique during radiography or fluoro-scopy, applying details of algebra to calculate the distances from target to object, from object to film or image receptor, and from target to film or image receptor using the formula for magnification (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 338 and levels, 4 and 5.

CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge Factor VI No. 340

Skill or Knowledge Category 52220000

Occupation Quality Assurance Technician

Refers to Task Code No(s): 535 538 543 544 553

Is there Cross Reference? ... Yes(X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Descriptive Statistics (includes standard frequency and distribution functions, measures of location such as mean, median, and mode, measures of dispersion, graphic and tabular representation of data)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying details of descriptive statistics in order to carry out tests of diagnostic x-ray equipment, prepare and evaluate test data; being able to use linear graph paper to plot kVp waveform as displayed on ose cilloscope, evaluate exposure rate and area under waveforms as a function of kilovoltage or added filtration; being able to calculate coefficient of variation, coefficient of linearity, average exposure rates in connection with calibration tests (Task 535);

being able to plot exposure readings on semi-log paper and read the HVL of an x-ray unit (Task 538);

being able to calculate averages and variations from the average of the density of test films and of the temperatures of inlet water, developer, and wash water in connection with monitoring of film processors (Task 543);

being able to calculate average densities of test films, plot optical density of film types against the log of exposures to obtain the characteristic curve of film batches; being able to evaluate the shapes of the characteristic curves to determine relative speed and contrast of film batches and other parameters (Task 544);

being able to prepare a calibration chart on which net density is plotted against exposure in mR in connection with calibration when preparing to read exposure from personnel monitoring film or TLD dosimeters (Task 553).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and, are required for successful completion of the activities listed above.

Cross Reference Footnote:

Same scale value appears in level 5.



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	• .		
CURRICULUM OBJECTIVE SHEET	`,	,	Page 1 of
Type of Objective Knowledge	Factor'	VI	No. 341
Skill or Knowledge Category 65260000			cale Value 1.5
Occupation Quality Assurance Technician			Level 2
Refers to Task Code No(s).: 543		i	1 ,
		<u> </u>	
2	W.2		
Is there Cross Reference?Yes(X)No()	If yes, see	footnote	(s).
	•		<u> </u>
Content: A graduate of the program at this		evel must	be able to
demonstrate mastery of the following su	bject area,		gin A
			•
. Photography and Cinematography		•	
	**	•	
at a level of awareness and depth of un	derstanding a	dequate 1	to the proper
performance of the following activities	1	,	
	•_ •	•	• • • • • • • • • • • • • • • • • • • •
1. Applying details of photography to	evaluate whet	her test	films made in

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

monitoring x-ray film processors may be due to light leaks; variations in temperature, or need to replenish processing chemicals (Task 543).

Cross Reference Footnote:

Higher scale value appears in level 5.



CURRICULUM OBJECTIVE SHEET		Page 1 of 1
Type of Objective Knowledge	- Factor IV	No. 342
Skill or Knowledge Category 65620000	,,	Scale Value 1.5
Occupation Patient Care Mechnician		* Level 2
Refers to Task Code No(s): 35 156 182		, , ,
, A	·	
		•
Is there Cross Reference? Yes (X) No () If yes, see foot	note(s).
	,	
Content: A graduate of the program at this	educational level	must be able to
demonstrate mastery of the following s	subject area	• •

Mechanics of Writing English (includes traditional (prescriptive) grammar, punctuation, spelling, bibliographic, and footnote form)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying details of grammar, punctuation, and spelling in recording condition of wound, or writing orders for medication, or recording what was done in connection with removal of patient's sutures, irrigating; cleaning, and/or dressing a wound, or setting up and using a suction machine (Tasks 33, 156, 182).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities fisted above.

Cross Reference Footnotes: See The Following Curriculum Objectives: Same scale value appears in: 343.

Higher scale value appears in: 344 345;

 CURRICULUM OBJECTIVE SHEET
 Page 1 of 1

 Type of Objective
 Knowledge
 Factor
 VI
 No.
 343

 Skill or Knowledge Category
 65620000
 Scale Value 1.5

 Occupation
 Quality Assurance Technician
 Level 2

 Refers to Task Code No(s):
 173 175 178 187 525 529 530 531 532 533 534 535 536

 537 138 539 540 543 544 545 548 549 550 556

Is there Cross Reference? ... Yes (x) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Mechanics of Writing English (includes traditional (prescriptive) grammer, punctuation, spelling, bibliographic, and footnote form)

at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

1. Applying details of grammar, punctuation, and spelling in recording results and evaluation of tests of diagnostic x-ray equipment, and recording what was done to correct problems (all tasks listed).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:

Same scale value appears in: 342: Higher scale value appears in: 344 345.



CURRICULUM OBJECTIVE SHEET

Type of Objective Knowledge | Factor | III | No. | 344 | Scale | Value | 2.5 |

Occupation Radiologic Technologist | Level | 3 |

Refers to Task Code No(s) : | 81 353 355 356 357 358 359 360 361 362 363 364 365 |

366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 463 464 465 466 467 468 491 492 493 494 495 (*continued below)

Is there Cross Reference? ... Yes (X) ... No() If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate mastery of the following subject area

Mechanics of Writing English (includes traditional (prescriptive) grammar, punctuation, spelling, bibliographic, and footnote form)

'at a level of awareness and depth of understanding adequate to the proper performance of the following activities:

- 1. Applying details of grammar, punctuation, spelling, sentence construction, and syntax in recording orders for "retakes" and/or any suggestions for additional views, indicating what is wrong, what adjustments are needed as a part of quality review of "plain film" radiographs (Task 81).
- 2. In participating in meeting of diagnostic x-ray department technologists, being able to comprehend, raise issues, or participate in any discussion dealing with the recording of evaluations, information, decisions, or written reports in connection with radiographic examinations (Task 353).
- Applying details of grammar, punctuation, spelling, sentence construction, and syntax in recording the radiographic examination of a patient including any comments on equipment failure, special care provided for patient, or reasons that any views called for could not be provided (all tasks listed except Tasks 81 and 353).

To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footnotes: See The Following Curriculum Objectives:
Lower scale value appears in: 342 343.
Same scale value appears in level 14.

Same scale value appears in level 14. Higher scale value appears in: 346 and level 5.

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CURRICULUM OBJECTIVE SHEET	•	Page 1 of 1
Type of Objective Knowledge	FactorVI	No. 345
Skil'l or Knowledge Category 65620000		Scale Value 3.5
Occupation Quality Assurance Technician		Level 2
Refers to Task Code No(s).: 554		
Is there Cross Reference? Yes(X) No() If yes, see footno	ote(s).
		<u>·</u>
Content: A graduate of the program at this	educational level m	ist be able to
demonstrate mastery of the following	subject area	γ .

Mechanics of Writing English (includes traditional (prescriptive) grammar, punctuation, spelling, bibliographic, and footnote form)

at a level awareness and depth of understanding adequate to the proper performance of the following activities:

- 1.' Applying details of grammar, punctuation, spelling, sentence structure, syntax, paragraph construction, and the structure of reports and letters to compose or adapt form letters to be sent to personnel informing them of unusual radiation dose levels and need for interview; being able to prepare reports on radiation exposure of occupationally exposed individuals for agencies (Task 554).
- To accomplish these activities the student must have a detailed knowledge of the subject category, covering the appropriate technical or special terms, facts, equipment, and/or procedures which are part of this discipline and are required for successful completion of the activities listed above.

Cross Reference Footpotes: See The Following Curriculum Objectives: Lower scale value appears in: 342 343 344. Higher scale value appears in level 5.

	CURRICULUM ODJECTIVE SHEET	I WKC I OI J
_	Type of Objective Procedural Factor	No. 346
	Skill or Knowledge Category Not Applicable (n.a.)	Scale Value n.a.
	Occupation Patient Care Aide	
	Refers to Task Code No(s): 30 tasks listed below	<u> </u>
	Is there Cross Reference? Yes() No(X) If yes, see fo	otnote(s).
		<u> </u>
1	Content: A graduate of the program at this educational leve	l must be able to

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- 2. Properly use all the equipment called for in the tasks below.

To accomplish this, the student must be able to—(a) list the proper sequence of events in each task; (b) indicate the possible emergents or variations to be expected in the task situation and the proper sequence of events for each eventuality; and (c) demonstrate the proper performance of each task in a predetermined clinical setting or in a clinical simulation.

- Task 73 Reassuring any patient and/or accompanying adult about x-ray and/or fluoroscopy procedures.
- Task 74 Explaining to any out-patient or accompanying adult proper athome. procedures to follow prior to coming for radiographic or fluoroscopic examination.
- Task 98 Obtaining a clean catch urine specimen from any patient and preparing for laboratory.
- Task 113 Giving any patient general reassurance.
- Task 138 Reporting observed symptoms and concerns of any patient to physician or staff member.
- Task 153 'Assisting physician or co-worker in special examination or treatment procedures.
- Task 155 Obtaining urine specimen on orders.
- Task 166 Using isolation and decontamination techniques to prepare examination or treatment room or area and clean up afterwards for patient with infectious or communicable condition.
- Task 190 Assisting patient to or from wheelchair, stretcher, bed, or table and/or transporting patient to designated area.
- Task 193 Having any patient and materials prepared for special procedure and readying patient for examination.



Page 2 of 3

Type of Objective Procedural Factor IV No. 346
Skill or Knowledge Cagegory n.a. Scale Value n.a.

Content Continued

- Task 199' Taking and recording vital signs (temperature, pulse, respiration and blood pressure) of any patient.
- Task 262 Taking an electrocardiogram of any patient as ordered or determined.
- Task 271 Deciding whether to call staff person to evaluate whether unusual ECG reading is artifact, or calling physician in case of serious patient distress.
- Task 278 Checking on reasons for nonappearance of in-patients for examinations or treatment.
- Task 279 Notifying ward or floor personnel to ready and transport in-patients who are scheduled for specific procedures at specific times.
- Task 281 Checking in-patients' identity against patients' treatment and medication check lists; stamping arrival and departure times; attaching cards to patients indicating special conditions.
- Task 282 Escorting adult out-patients to and/or from dressing rooms, treatment rooms and/or waiting areas.
- Task 283 On orders, deciding whether wound of any patient needing change of dressing needs attention of RN; changing simple dry dressing or reinforcing wet dressing.
- Task 287 On orders, placing order for specific dietetic meal; picking up, delivering, and feeding patient if so decided.
- Task 289 Bottle feeding a baby with pre-prepared formula.
- Task 290 Changing any patient's colostomy bag on orders.
- Task 291 Taking and reporting temperature of any non-pediatric patient-
- Task 29.2 Obtaining and examining fresh stool from any patient and reporting unusual or suspicious appearance on orders.
- Task 295 Participating in meeting of nursing personnel in x-ray department.
- Task 301 Diapering a baby
- Task 302 Placing or making call and delivering non-medical message at patient or co-worker's request.
- Task 303 Arranging, measuring and recording food intake and excretory output as ordered.



CURRICULUM OBJECTIVE SHEET (continued)

Type of Objective Procedural

Skill or Knowledge Cagegory n.a.

Page 3 of 3

Factor IV No. 346

Scale Value n.a.

Content Continued

- ·Task 490 Mummying or wrapping an infant or young pediatric patient.
- Task 520 Preparing any patient and attaching electrodes for electrocardiogram monitoring.
 - Task 521 Applying digital or manual pressure to any patient's arterial or venous puncture site as ordered.

CURRICULUM OBJECTIVE SHEET	Page 1 of 4
Type of Objective > Procedural . Factor . IV	No. 347
Skill or Knowledge Category Not Applicable (n)a.)	Scale Value n.a.
Occupation Patient Care Technician	, Level 2
Refers to Task Code No(s): 17 tasks listed below	
	``
Is there Cross Reference? Yes() No(X) If yes, see footno	te(s). '

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- ·2. Properly use all the equipment called for in the tasks lasted below.

To accomplish this, the student must be able to (a) list the proper sequence of events in each task; (b) indicate the possible emergencies or variations to be expected in the task situation and the proper sequence of events for each eventuality; and (c) demonstrate the proper performance of each task in a predefermined clinical setting or in a clinical simulation.

- Task 18 Drawing blood from any non-pediatric patient's wein on orders.
- Task 33 Removing any patient's sutures.
- Task 65 Preparing specimens such as extravascular body fluids, washings, cell and/or tissue biopsies for transportation to laboratory.
- Task 133 Administering subcutaneous or intramuscular injection for any patient according to MD's orders after having quantity checked.
- Task 143 Catheterizing any female urethra as ordered. .
- Task 156 Irrigating, cleaning, dressing or redressing any patient's wound, burn, or opening for catheter as ordered.
- Task 181 Catheterizing any male or female patient's urethra with retention balloon catheter.
- Task 182 Setting up and using suction machine to clear airway or to assist with gastric lavage.
- Task 185 Administering oxygen from portable or piped outlet unit using oronasal or nasal mask according to MD's orders.
- Task 198 Administering medication orally to any patient according to MD's orders after having quantity checked.
- Task 243 Restraining any patient.



Type of Objective Procedural Factor IV No. 347
Skill or Knowledge Cagegory Discount Scale Value n. a.

Content Continued

Task 280 Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer.

- Task 296 Providing first aid in x-ray department emergency.
- Task 298 Administering medication orally to any patient according to MD's orders.
- Task 299 Administering subcutaneous or intramuscular injection for any patient according to MD's orders.
- Task 308 Setting up and monitoring any patient's electrocardiogram during special procedure.
- Task 22 Applying pressure dressing to arterial or venous puncture site:

CURRICULUM OBJECTIVE SHEET	r		Page 1 of 3
Type of Objective Knowle	edge Factor	VI.	No. 348
Skill or Knowledge Category	Not Applicable (n.a.)		Scale Value n.a.
Occupation Quality Assu	rance Aide		Level <u>1</u>
Refers to Task Code No(s) .:	41 tasks listed below		
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			•

Is there Cross Reference? ... Yes() ... No(X) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- 2. Properly use all the equipment called for in the tasks listed below.
- 3. Properly apply arithmetic in using symbolic skills.

To accomplish this, the student must be able to (a) list the proper sequence of events in each task; (b) indicate the possible emergencies or variations to be expected in the task situation, and the proper sequence of events for each eventuality; and (c)-demonstrate the proper performance of each task in a predetermined clinical setting or in a clinical simulation.

- Task 8 Shutting down computerized transverse axial scanning equipment.
- Task 69 Processing exposed x-ray film in automatic processor.
- Task 70 Inspecting, cleaning and readying x-ray film hand processing equipment for use.
- Task 71 Processing exposed x-ray film manually.
- Task 72 Loading x-ray film cassette(s), nonscreen film holder(s), box(es), and/or roll film cartridges.
- Task 79 Preparing barium sulfate contrast medium as ordered or for standard use.
- Task 80 Preparing materials or trays with medications and materials for special treatments or procedures according to standard orders.
- Task 95 Testing a urine sample by tablet or dipstick method and recording.
- Task 134 Logging and/or tallying patient services and/or instructional case record materials for use in record keeping, billing or instruction.
- Task 135 Cleaning an examination or treatment room after use.
- Task 136 Checking and storing order for non-narcotic drugs and/or supplies.

Page 2 of 3.

Type of Objective Procedural.

Factor VI

No. 348

Skill or Knowledge Cagegory

n.a.- /

Scale Value, n.a

Content Continued

- Task 137 Delivering prepared specimens or cultures to lab or incubator.
- Task 145 Preparing treatment or examination equipment for sterilization in autoclave.
- Task 147 Preparing or changing technique charts for specific x-ray and fluoroscopic equipment on orders.
- Task 163 Filling out institutional report form (such as for cancellation) as ordered by MD.
- Task 164 Filling out patient identification information on labels and forms in anticipation of need or as requested.
- Task 167 Inspecting and cleaning intensifying screens in cassette holders.
- Task 180 Preparing blood samples for the laboratory.
- Task 184 Relocking equipment box(es) with breakaway lock.
- Task 192 Inspecting, checking, preparing xeroradiography equipment for use.
- Task 222 Making photocopies of documents, collating, and stapling.
- Task 223 Making up unoccupied bed or stretcher bed.
- Task 227 Checking for presence and condition of emergency supplies in proper locations; and restocking as needed.
- Task 260 Preparing a hypodermic needle with injection dosage on orders.
- Task 264. Ordering duplicate copies of forms, records, or documents.
- Task 267 Processing exposed Polaroid x-ray film with Polaroid automatic processing equipment.
- Task 269 Loading empty cassette with Polaroid x-ray film.
- Task 273 Cleaning, inspecting and readying automatic x-ray film processor(s) for use.
- Task 274 Adding predetermined instruments and supplies to prepared procedure trays.
- Task 275 Preparing radiographic subtraction prints. .
- Task 284 Checking presence and functioning of oxygen and/or suction equipment, and amounts of oxygen.

CURRICULUM OBJECTIVE SHEET (continued)Page 3 of 3Type of Objective ProceduralFactor VINo. 348Skill of Knowledge Cagegory n.a.Scale Value n.a.

Content Continued

- Task 285" Checking for presence of emergency supplies in proper locations.
- Task 286 Filling out standard order for linens picking up, folding and storing.
- Task 288 Filling out and delivering standard order for food items for department; picking up, and placing food for storage.
- Task 297 Obtaining and checking keypunch control card for serial cassette changer as ordered.
- Task 300 Checking and submitting accumulated patient's treatment and medication check lists for in and out time stamps.
- Task 304 Readying emergency cart.
- Task 319 Applying print coater to photographs:
- Task 354 Obtaining patient records for use in examination, procedure, treatment or conference.
- Task 551 Preparing personnel radiation monitoring dosimetric film or TLD badges and distributing.
- Task 552 Collecting and/or distributing personnel monitoring dosimetric badge inserts and preparing for outside or in-house processing and reading.



CURRICULUM OBJECTIVE SHEET	Page 1 of 3
Type of Objective Procedural Factor	VI No. 349
Skill or Knowledge Category Not Applicable (n.a.)	Scale Valuen.a.
Occupation Quality Assurance Technician	Level 2
Refers to Task Code No(s).: 32 Tasks listed below	
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Is there Cross Reference? Yes()' No(X) If yes, se	e footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- Properly use all the equipment called for in the tasks listed below.
- 3. Properly apply arithmetic in using symbolic skills, algebra, and descriptive statistics.

To accomplish this, the student must be able to (a) list the proper sequence of events in each task; (b) indicate the possible emergencies or variations to be expected in the task situation, and the proper sequence of events for each eventuality; and (c) demonstrate the proper performance of each task in a predetermined clinical setting or in a clinical simulation.

- Task 78 Checking and jacketing patient's radiographs, ultrasonograms, and/or C.T.T. scans with requisition sheets and prior diagnostic materials and placing for filing or interpreting.
- Task 173 Checking accuracy of x-ray machine timers (except phototimers) with spinning top test.
 - Task 175 Performing penetrometer calibration test of kVp or mA selectors of x-ray machine output.
 - Task 178 Checking, preparing fluoroscope controls (and phototimer)
 - Task 187 Checking cassettes for proper film-screen contact.
- Task 276 Making minor adjustments or repair on automatic x-ray film pro-
- Task 280 Participating in monitoring of personal exposure to radiation by periodically turning in and replacing film strip in badge worn by performer.
- Task 523 Preparing computerized transverse axial tomography (C.T.T.) equipment for use.

CURRICULUM OBJECTIVE SHEET (continued)		Page 2 of 3	ì
Type of Objective Procedure	Factor VI	No. 349	
Skill or Knowledge Cagegory n.a.		Scale Value n.a.	

Content Continued

- Task 524 Providing preventive maintenance for display tube surface, camera, disc and/or tape drive units, and/or scanning assembly (especially water-using head box assembly) of computerized transverse axial tomography (C.T.T.) equipment.
- Task 525 Checking calibration and accuracy of C.T.T. equipment by making test scans.
- Task 527 Retrieving, displaying and making photographs, printouts and/or magnetic tape records of computerized transverse axial tomographic (C.T.T.) scans.
- Task 529 Checking x-ray field limitation, x-ray receptor and light_field.
 alignment, minimum TOD, TFD and field size indicators for diagnostic x-ray equipment.
- Task 530 Checking fluoroscopic and spot film x-ray field limitation, x-ray field and image receptor alignment, maximum TID, minimum TOD, and other requirements.
- Task 531 Testing whether diagnostic x-ray tube overload protection and/or effective focal spot size meet acceptable standards.
- Task 532 Checking and/or performing direct calibration tests of diagnostic radiography equipment exposure timers.
- Task 533 Checking automatic exposure termination of diagnostic radiography equipment.
- Task 534 Providing visual and radiographic or fluoroscopic inspection of personnel shielding devices such as leaded gloves, aprons, sheets, gonadal shields.
- Task 535 Performing calibration tests of kVp, mA mAs, exposure rates, reproducibility on diagnostic radiography equipment using direct measuring instruments and/or radiographic comparisons.
- Task 536 Providing visual and/or manual inspection of diagnostic radiography system.
- Task 537 Checking diagnostic tomography x-ray equipment for mechanical operation, fulcrum position, resolution, exposure uniformity and/or grid alignment:
- Task 538 Estimating HVL and checking adequacy of filtration of diagnostic x-ray equipment.



CURRICULUM OBJECTIVE SHEET (continued) ;

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Type of Objective <u>Procedural</u>, Factor <u>VI</u> No. 349-

Content Continued

- Task 539 Checking bucky grid alignment and or centering in diagnostic radiography equipment.
- Task 540 Checking fluoroscopic automatic brightness control system and/or for resolution and distortion of the optical system.
- Task 543 Monitoring and evaluating x-ray film processors.
- Task 544 Determining exposure characteristics of x-ray and/or dosimetric films.
- Task 545 Monitoring patient exposure rates for routine diagnostic x-ray procedures...
- Tas 548. Checking maximum entrance exposure rate and primary barrier transmitted radiation rate for fluoroscopic equipment.
- Task 549 Checking the leakage radiation rate from the source assembly of diagnostic x-ray equipment.
- Task 550 Conducting protection survey of stray radiation within diagnostic x-ray installation and transmission across primary and secondary protective barriers.
 - Reading and recording exposure from personnel monitoring film or thermoluminescent desimeters.
- Task 554 Entering, evaluating occupational radiation exposure data and initiating action on dangerous levels.
- Task 556 Calibrating diagnostic x-ray test, survey, or measuring instruments.

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Type of Objective Procedural Factor III No. 350	
Skill or Knowledge Category Not Applicable (n.a.) Scale Value	ie n.a.
Occupation Radiologic Technologist . Leve	21 3
Refers to Task Code No(s):: 75 tasks listed below	

Is there Cross Reference?Yes() ...No(X) If yes, see footnote(s).

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- 2. Properly use all the equipment called for in the tasks listed below.
- 3. Properly apply arithmetic in using stablic skills and algebra.

To accomplish this, the student must be able to (a) list the proper sequence of events in each task; (b) indicate the possible emergencies or variations to be expected in the task situation, and the proper sequence of events for each eventuality; and (c) demonstrate the proper performance of each task in a predetermined clinical setting or in a clinfcal simulation.

- Task 81 Providing technical quality review of "plain film" radiographs.
- Task 280 Participating in monitoring of personal exposure to radiation by periodically turning in and neplacing film strip in badge worn by performer.
- Task 353 Participating in meeting of diagnostic x by department technologists.
- Task 355 Taking plain film radiographs of fingers, hand(s) or wrist(s) of non-infant patient.
- Task 356 Taking plain film radiographs of forearm and/or elbow joint of non-infant patient.
- Task 35 Taking plain film radiographs of humerus and/or swoulder girdle of non-infant patient.
 - Task 358 Taking plain film radiographs of toes, foot and/or ankle joint of non-pediatric patient.
 - Task 359 Taking plain film radiographs of leg(s), knee(s) and/or femur(s) of non-infant patient.
 - Task 360 Taking plain film radiographs of pelvis, hips and/or upper femora of non-infant patient.

Page 2 of 5

Type of Objective Procedural Factor III No. 350
Skill or Knowledge Cagegory n.a. Scale Value n.am

Content Continued /

- Task 361 Taking plain film radiographs of vertebral column of non-infant patient.
- Task 362 Taking plain film radiographs of sternum, ribs and/or thoracic viscera of non-infant patient.
- Task 363 Taking plain film radiographs of abdominal contents of non-infant patient.
- Task 364 Taking radiographs of anterior portion of the neck of non-infant patient.
- Task 365 Taking plain film radiographs of the skull and/or face of non-infant patient.
- Task 366 Taking plain film radiographs of the paranasal sinuses of a noninfant patient.
- Task 367 Taking preliminary localization radiographs of foreign bodies in orbit or eye of non-infant patient.
- Task 368 Taking mammogram (radiography or keroradiography) of non-infant patient.
- Task 369 Preparing, transporting, setting up and returning mobile portable radiography equipment for bedside radiography.
- Task 370 Taking operative orthopedic radiographs of any patient (such as in hip pinning).
- Task 371 Taking operative cholangiograms, pancreatograms or similar operative radiographs of any patient.
- Task 372 Taking intravisceral or isolated operating room radiographs of any patient.
- Task 373 Taking operating room radiographs for opaque foreign body search.
- Tank 374 Taking tomograms of non-infant patient.
- Task 375 Taking sialograms of any patient.
- Task 376 Taking lymphangiograms or lymphadenograms of any patient.
- Task 377 Taking positive contrast arthrograms (especially of knee) of any patient.
- Task 378 Taking bronchograms of a non-pediatric patient.



Page 3 of 5

Type of Objective Procedural Factor III No. 350
Skill or Knowledge Cagegory n.a. Scale Value n.a.

Content Continued

- Task 379 Carrying out radiologic technology for bronchoscopy or needle lung biopsy of a non-pediatric patient.
- Task 380 Providing technical assistance for laryngography or cleft palate study of any patient (or any similar fluoroscopic examination including spot filming and/or cineradicgraphy).
- Task 381, Taking upper GI radiographs of non-pediatric patient.
- Task 382 Taking small intestine intubation radiographs of a non-pediatric patient.
- Task 383 Taking barium enema radiographs of non-pediatric patient.
- Task 384 Taking oral cholecystograms and cholangiograms of non-infant patient.
- Task 385 Taking intravenous cholangiograms and cholecystograms of non-infant patient.
- Task 386 Taking percutaneous or T-tube rholangiograms of non-infant patient.
- Task 387 Taking intravenous pyelograms and urograms of non-pediatric patient.
- Task 388 Taking infusion nephrotomograms of any patient.
- Task 389 Taking percutaneous antegrade or renal cyst pyolograms of non-
- Task 390 Taking cystograms and voiding cystourethrograms of any patient.
- Task 463 Taking retrograde pyclograms and ureterograms of non-pediatric patient.
- Task 464 Providing technical assistance for an examination of any patient requiring fluoroscopic control and spot filming.
- Task 465 Taking pelvic pneumograms and/or hysterosalpingograms of non-pediatric female patient.
- Task 466 Taking radiographs of a pregnant patient's abdomen for fetography, amniography, placentography.
- Task 467 Taking radiographs of a pregnant patient's uterus for intrauterine transfusion.
- Task 468 Taking radiographs of a pregnant patient's pelvis for Colcher-Sussman pelvimetry.

CURRICULUM OBJECTIVE SHEET (continued) Page 4

Type of Objective Procedural Factor III No. 350

Skill or Knowledge Cagegory n.a. Scale Value n.a.

Content Continued

Task 491 Taking plain film radiographs of the skull of infant patient.

Task 492 Taking plain film radiographs of vertebral column of infant patient.

Task 493 Taking plain film radiographs of the upper extremities of infant patient.

Task 494 Taking radiographs of neck, chest of infant patient.

Task 495 Taking plain film radiographs of abdomen of infant patient.

Task 496 Taking plain film radiographs of the lower extremities of infant or pediatric patient.

Task 497 Taking radiographs for choanal atresia study of infant patient.

Task 498 Taking bronchograms of a pediatric pateint.

Task 499, Taking upper GI radiographs of pediatric patient.

Task 500 Taking barium enema, intussusception or defecography radiographs of pediatric patient.

Task 501 Taking percutaneous peritoneograms/herniograms of pediatric patient.

Task 502 Taking excretory intravenous inferior vena cavograms and urograms of pediatric patient.

Task, 503 Taking genitograms or fistulograms of any patient for intersex, external fistula or sinus tract examination.

Task 504 Taking cerebral angiograms or venograms of any pattent.

Task 505 Taking pneumoencephalograms or brain ventriculograms of any patient.

Task 506 Taking positive contrast spinal or posterior fossa myelograms of any patient.

Task 507 Taking diskograms of any patient:

Task 508 Taking air or gas contrast myelograms of any parient

Task 509 Taking spinal cord angiograms of any patient.

Task 510 Ting peripheral angiograms of any patient (after percutaneous needle or catheter entry, translumbar puncture, ascending or descending venous entry).

CURRICULUM OBJECTIVE SHEET (continued)

Type of Objective Procedural Factor III No. . . 350

Skill or Knowledge Cagegory n.a. Scale Value n.a.

Content Continued,

- Task 511 Taking catheter thoracic and/or abdominal aortograms of any patient, and/or selective visceral arteriograms (bronchial or abdominal).
- Task 512 Taking selective pelvic angiograms of non-pediatric gravid or nongravid female patient.
- Task 513 Taking intravenous angiocardiograms of any patient.
- Task 514 Taking selective thyroid angiograms of any patient.
- Task 515 Taking catheter inferior vena cavograms and/or renal or adrenal venograms of non-infant patient.
- Task 516 Taking percutaneous splenoportograms of any patient.
- Task 517 Taking selectivé subclavian arteriograms of non-pediatric patient for thoracic outlet syndrome evaluation.
- Task 518 Taking selective pulmonary angiograms or selective angiocardiograms of any patient.
- Task 519 Taking percutaneous coronary arteriograms and/or left ventriculograms of any pateint.
- Task 526 Taking computerized transverse axial tomographic (C.T.T.) scans of any patient.



CURRICULUM OBJECTIVE SHEET		rage 1 or
Type of Objective Knowledge	Factor A	'No 351
Skill or Knowledge Category Not Applicable (n.a	.) "	Scale Value n.a.
Occupation Administrative Technologist	·	Level 3
Refers to Task Code No(s): 11 tasks listed belo	w ·	
Is there Cross Reference? Yes() No(x), If	yes, see footno	te(s).

Content: A graduate of the program at this educational level must be able to demonstrate the following to a degree of proficiency appropriate to the task situation:

- 1. Demonstrate the proper sequence of events in each of the tasks listed below (all the tasks for this factor at this level).
- 2. Properly use all the equipment called for in the tasks listed below.

To accomplish this, the student must be able to (a) list the proper sequence of events in each task; (b) indicate the possible emergencies or variations to be expected in the task situation, and the proper sequence of events for each eventuality; and (c) demonstrate the proper performance of each task in a predetermined clinical setting or in a clinical simulation.

- Task 76. Checking supplies and ordering non-drug materials needed by department.
- Task 128 Checking supply of narcotics or regulated drugs (or witnessing count); reordering, picking up, and restocking.
- Task 129 Checking supply and ordering non-narcotic medicinals needed by department.
- Task 131 Making assignments of staff to work ares, procedures, and/or MD's and/or vacations and lunch hours.
- Task 132 Requesting repair, replacement or other services of another hospital department orally and/or filling out requisition.
- Task 165 Keeping attendance records and recording or reporting excessive lateness and/or absenteeism.
- Task 186 Orienting new staff member(s) to departmental standard operating and administrative procedures, floor plan, location of equipment and supplies, record keeping.
- Task 272 Preparing and adjusting schedules for patient procedures.
- Task 277 Assigning scheduled patients to procedure fooms in appropriate order.

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tending personal rsona l , work-rel signing subordin	l meeting lated prob nate and e	with sup olems.	g assign	ment to	transport	· ·
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